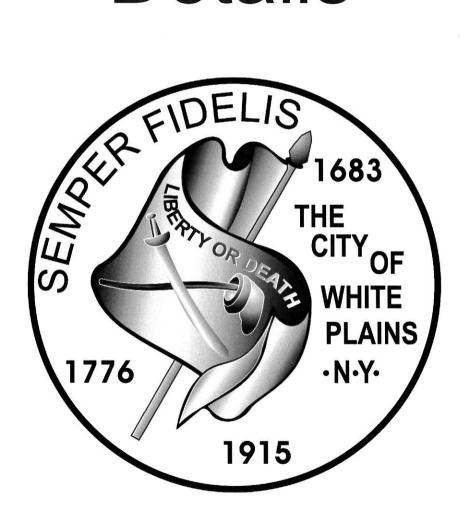
Standard Construction Details



Department of Public Works City of White Plains, New York

F:\DPWAFNG\DRAWINGS\STANDARDS\\DETAILS\Standard Construction Details\Final Details - 5.22.12\Cover_Table Of Contents.dwg

TABLE OF CONTENTS STANDARD CONSTRUCTION DETAILS

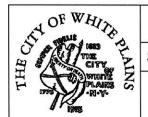
Description	SECTION IV	Page No.
General Notes		- SD 1
	crete Block)	
Type "B" Manhole (Con-	crete Block)	- SD 5
Type "C" Manhole		- SD 6
	crete Block)	
Type "F" Manhole (Pred	ast Concrete)	- SD 10
Drop Connections		- SD 11
Type "A" Catch Basin (0	Concrete Block)	- SD 13
Type "B" Catch Basin (0	Concrete Block)	- SD 15
Type "C" Catch Basin (0	Concrete Block)	- SD 17
Curbs and Berms		- SD 21
	on	
	ces	
	s	
	ock)	
Splice Box (Precast Cor	ncrete)	- SD 29
	s	
	Backfill	
	g	
	Retaining Wall	
	Tree Well and Wall	
	to Main Connection	
	ewalk and Crosswalk-Mall)	
	cast Concrete)	
	e (Precast Concrete)	
	cast Concrete)	
	Precast Concrete)	
	Precast Concrete)	
	n Basin (Precast Concrete)	
	Castings and Water Valve Boxe	
	ent Control	

Note: The following pages have been intentionally omitted: SD2, SD4, SD7, SD8, SD12, SD14, SD16, SD18, SD19, and SD20.

F:\DPWNENG\DRAWINGS\STANDARDS\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-1.dwg

GENERAL NOTES

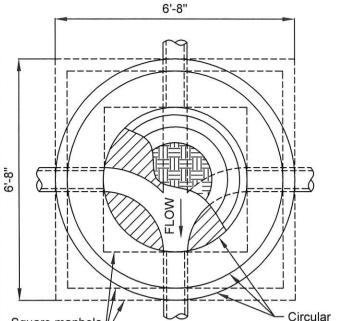
- In general, and unless otherwise specified, all materials and methods of construction shall conform to Section II
 and Section III of the contract specifications entitled "Materials of Construction" and "Construction Methods and
 Payment Items", respectively. The specifications set forth herein shall be followed in all cases except where the
 contract plans indicate otherwise, in which case the plans shall govern. Special structures will conform with the
 specifications set forth herein, and with the dimensions shown on the plans, or as otherwise specified.
- 2. Where masonry structures are constructed, the first course of masonry shall be imbedded in the concrete base immediately after the base has been poured.
- 3. Unless otherwise specified, the contractor shall have the option to build masonry structures of either brick or solid concrete block and, where specified precast concrete. All brick and block will be laid in 1:2 portland cement mortar.
- 4. Unless otherwise specified all concrete footings or bases shall be of Class "A" concrete and all concrete for structures with exposed surfaces shall be air entrained.
- 5. Invert channels will be brick or split pipe, as directed by the engineer. Brick inverts will be painted with three (3) coats of neat cement grout without sand, or plastered with one coat of 1:2 cement mortar, if ordered by the Engineer.
- 6. Exterior surfaces of walls of masonry structures will be plastered with a 1" coat of 1:2 cement mortar. Interior surfaces of wall will be coated with three (3) coats of neat cement grout without sand, applied with an interval of not less than twenty four (24) hours between applications. In addition, the exterior surfaces of walls of sanitary sewer manholes will be waterproofed by brushing on two (2) coats of bituminous material equal to "Sika-Seal", as manufactured by the Sika Chemical Corporation. The application shall be done according to the manufacturer's directions.
- 7. Where letters are specified on cast iron covers, they shall be cast on top approximately 2" square and the surfaces of the letters shall be level with the surface of the toe-cope pattern.
- 8. All Exposed structural steel will be painted with hot coal tar or asphalt pitch (at least 300°) or two coats of asphaltic paint "Cabot's Flexiblac" or equal, over one coat of red lead.
- 9. The cast iron steps used i all structures shall be spaced 15" on center vertically and staggered 12" on center with a 6" minimum projection.
- Unless otherwise specified all structures will have a base 6" of compacted sand or 3/4" crushed stone above undisturbed material.
- 11. All concrete will be Class "A" unless otherwise specified.



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

General Notes



PLAN

3'-7"

Square manhole

where specified

Top of Casting =

F:\DP\MENG\DRAWINGS\STANDARDS\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-3.dwg

Brick Invert

- Unless otherwise specified Sanitary Sewer manholes shall have letters "SEWER" and Storm Drain manholes shall have letters "DRAIN" cast on the covers.
- 2. Where pipe diameters are greater than 36", construct Type "C" manhole.
- 3. When depth "A" is greater than 10'-0", the additional depth over 10'-0" shall be paid for under Item 122.
- 4. Casting and cover shall be equal to Pattern No.1204 as manufactured by the Campbell Foundry Co., Harrison, N.J.
- 5. Cover for sanitary sewer manholes shall be Campbell, "Flow-Seal" type, with a 3/4" threaded hole located adjacent to the pick hole, 4" from the edge of cover.

MAN	HOLE DIMENSI	SNC
Depth "A" Top of Casting To Invert	"B" Height of 12" Wall	"C" Height of 6" Wall
6'-0"	2'-6"	3'-0"
7'-0"	3'-0"	3'-6"
8'-0"	3'-6"	4'-0"
9'-0"	3'-6"	5'-0"
10'-0"	4'-0"	5'-6"
11'-0"	4'-0"	5'-6"
12'-0"	4'-0"	7'-6"
13'-0"	4'-6" 8'-0	
over 13'-0"	Construct Pre	cast Manhole

Two (2) Courses of Common Brick (Minimum)

1" Cement Parge and Bituminous waterproofing on Sanitary Sewer manhole.

6" Solid Concrete Block

Manhole Steps shall be copolymer polypropylene equal to pattern No. PS-2-PF as manufactured by M.A. Industries Inc., Peachtree, GA. Steps shall be staggered 15" O.C.

1:2 Mortar

manhole

6" Solid Concrete Block

1" Cement Parge waterproofing on Storm Drain manhole.

Not less than 16" unless otherwise ordered

Compacted sand or 3/4" crushed stone

2' Finish Grade 0 2'-11" 5 3' تٍ Depth "A" Slope <u>ش</u> Class "A' Concrete .0 6'-8" TYPICAL SECTION Common

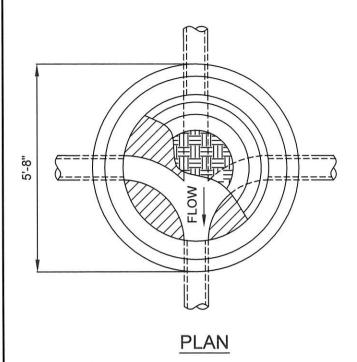
Type "A" Manhole (Items 119 & 122)

OF WHITE Standard C

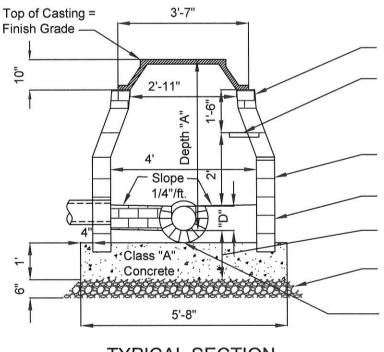
City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Type "A" Manhole (Concrete Block)



- Type "B" Manhole shall be used where depth "A" is 5'-0" or less.
- Unless otherwise specified Sanitary Sewer manholes shall have letters "SEWER" and Storm Drain manholes shall have letters "DRAIN" cast on the covers.
- Casting and cover shall be equal to Pattern No.1204 as manufactured by the Campbell Foundry Co., Harrison, N.J.
- Cover for sanitary sewer manholes shall be Campbell, "Flow-Seal" type, with a 3/4" threaded hole located adjacent to the pick hole, 4" from the edge of cover.



Two (2) Courses of Common Brick (Minimum)

Manhole Steps shall be copolymer polypropylene equal to pattern No. PS-2-PF as manufactured by M.A. Industries Inc., Peachtree, GA. Steps shall be staggered 15" O.C.

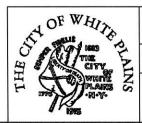
- 1" Cement Parge and Bituminous waterproofing on Sanitary Sewer manhole and Storm Drain.
- 6" Solid Concrete Block

Not less than 16" unless otherwise ordered

Compacted sand or 3/4" crushed stone

Common Brick Invert

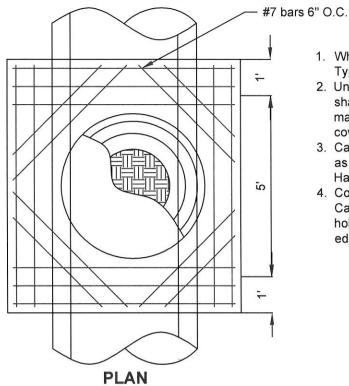
TYPICAL SECTION
Type "B" Manhole
(Item 120)



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Type "B" Manhole (Concrete Block)



3'-7"

Top of Casting = Finish Grade

- 1. Where pipes are smaller than 42" diameter, use Type "A" or Type "B" manhole.
- 2. Unless otherwise specified Sanitary Sewer manholes shall have letters "SEWER" and Storm Drain manholes shall have letters "DRAIN" cast on the covers.
- 3. Casting and cover shall be equal to Pattern No.1204 as manufactured by the Campbell Foundry Co., Harrison, N.J.
- 4. Cover for sanitary sewer manholes shall be Campbell, "Flow-Seal" type, with a 3/4" threaded hole located adjacent to the pick hole, 4" from the edge of cover.

MA	NHOLE D	IMENSIO	NS		
"D" Pipe Diameter	"A"	"B"	ITEM Number		
42"	4'-0"	7'-2"	121A		
48"	4'-6"	7'-8"	121B		
54"	5'-0"	8'-2"	121C		
60"	5'-6"	8'-8"	121D		
66"	6'-1"	9'-3"	121E		
72"	6'-7"	9'-10"	121F		
78"	7'-2"	10'-5"	121G		
84"	7'-8"	11'-0"	121H		
90"	8'-2"	11'-7"	1211		
96"	8'-9"	12'-2"	121J		

Two (2) Courses of Common Brick (Minimum)

8" Brick or 6" Solid Concrete Radial Block

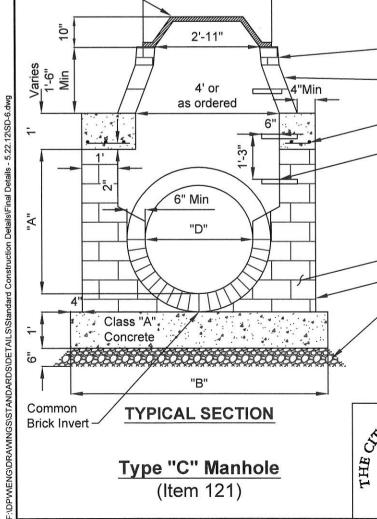
#7 bars 6" O.C. both ways

Manhole Steps shall be cast iron equal to pattern No.2588-1 as manufactured by the Campbell Foundry Co., Harrison, N.J., or copolymer polypropylene equal to pattern No. PS-2-PF-S as manufactured by M.A. Industries Inc., Peachtree, GA. Steps shall be staggered 15" O.C.

Solid concrete block

1" Cement Parge Waterproofing

Compacted sand or 3/4" crushed stone



Type "C" Manhole (Item 121)



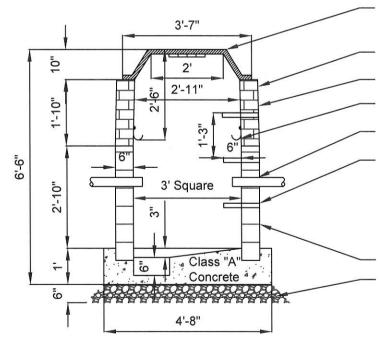
City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Type "C" Manhole

PLAN

- Unless otherwise specified traffic control manholes shall have letters "TRAFFIC" and fire alarm covers shall have letters "WPFD" cast on the covers. The cover will have no vent holes.
- 2. Minimum cover over duct will be 2'-6"
- 3. All exposed ducts and conduits shall project 3" beyond the wall. Ducts shall be plugged and conduits shall be threaded and capped with an approved bushing.
- 4. A wire support hanger shall be installed 2'-6" below finish grade, (four (4) required per manhole). Hangers shall be similar to catalog number C-149, as manufactured by Steel City or approved equal.
- 5. Casting and cover shall be equal to Pattern No.1204 as manufactured by the Campbell Foundry Co., Harrison, N.J.



Top of Casting = Finish Grade

Brick

1" Cement Parge

See Note 4

Ducts and conduits as required

Manhole Steps shall be cast iron equal to pattern No.2588-1 as manufactured by the Campbell Foundry Co., Harrison, N.J., or copolymer polypropylene equal to pattern No. PS-2-PF-S as manufactured by M.A. Industries Inc., Peachtree, GA. Steps shall be staggered 15" O.C.

Solid Concrete Block

Compacted sand or 3/4" crushed stone

TYPICAL SECTION
Type "F" Manhole
(Item 150)

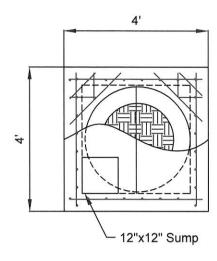


City of White Plains, N.Y.
Bureau of Engineering

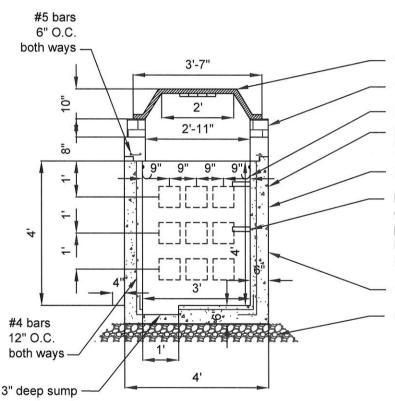
Standard Construction Detail

Type "F" Manhole (Concrete Block)

- Unless otherwise specified traffic control manholes shall have letters "TRAFFIC" and fire alarm covers shall have letters "WPFD" cast on the covers. The cover will have no vent holes.
- 2. Minimum cover over duct will be 2'-6".
- The minimum compressive strength of the concrete shall be 4000 PSI.
- The precast concrete structure shall comply with ASTM specifications C478.
- All exposed ducts and conduits shall project 3" beyond the wall.
 Ducts shall be plugged and conduits shall be threaded and capped with an approved bushing.
- 6. A wire support hanger shall be installed 2'-6" below finish grade, (four (4) required per manhole). Hangers shall be similar to catalog number C-149, as manufactured by Steel City or approved equal.
- Casting and cover shall be equal to Pattern No.1204 as manufactured by the Campbell Foundry Co., Harrison, N.J., or approved equal.



PLAN



Top of Casting = Finish Grade

Two (2) courses of common brick (Minimum)

See Note 6

Precast concrete to be cast with nine (9) 7"x7" knockouts in each wall

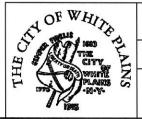
Class "A" Concrete

Manhole Steps shall be Polypropylene type, with Grade-60, deformed, reinforcing bar, equal to product No. P-14850-OS as manufactured by Lane International Corp., Tualatin, OR., or approved equal. Steps shall be staggered 15" o.c.

1" Cement Parge

Compacted sand or 3/4" crushed stone

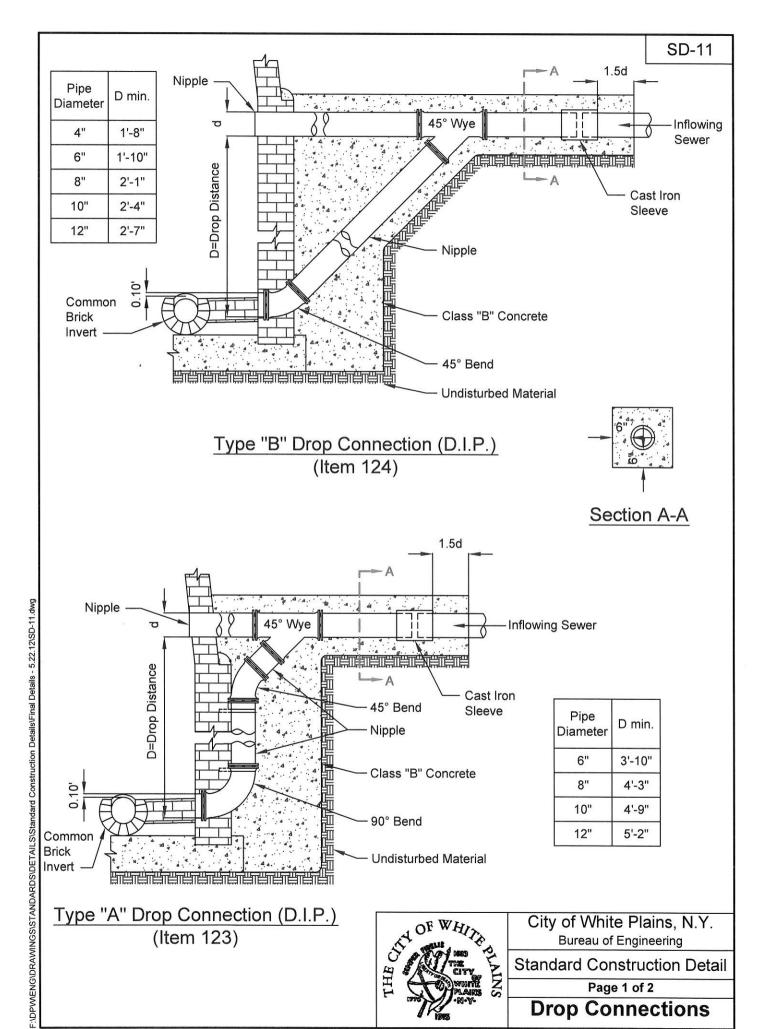
TYPICAL SECTION
Type "F" Manhole
(Item 150)



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Type "F" Manhole (Precast Concrete)



Drop Connections

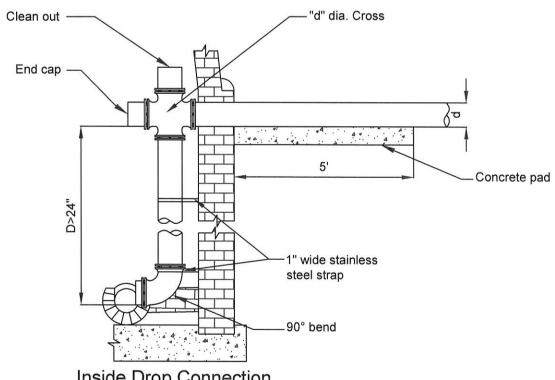
Page 1 of 2

1. The "A-4" bowl will service up through full 6" inlets.

Notes

2. The "A-6" bowl will service up through full 8" inlet.

Drop Bowl - Service Connection



Inside Drop Connection

NOTES

- 3. Type "A" used when D> 5'-0". Type "B" used when D≤ 5'-0".
- 4. Inside drop connection to be used only when specified by the engineer.
- 5. Diameter of all fittings to be same as inflowing sewer.
- 6. Location of drop connection in manhole to be approved by DPW.
- 7. Drop connection to be made using Class 52 ductile iron mechanical joint pipe and fittings.

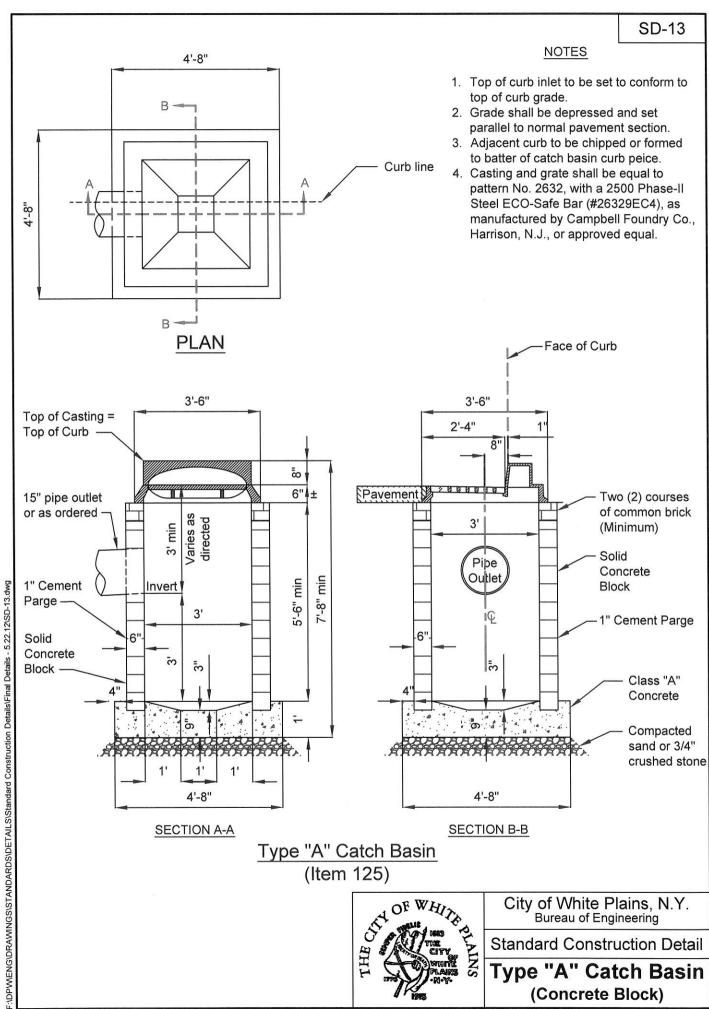


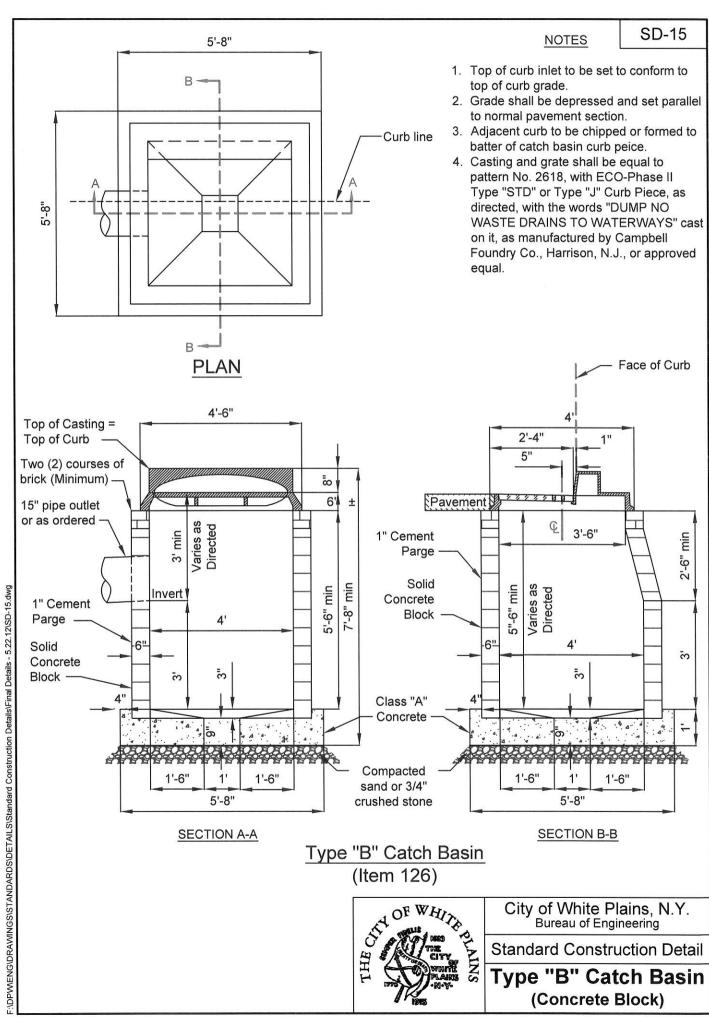
City of White Plains, N.Y. Bureau of Engineering

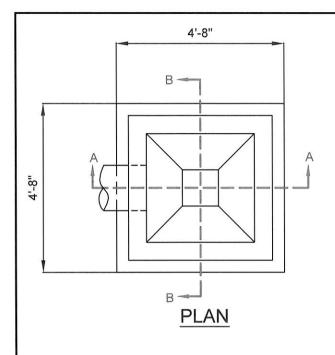
Standard Construction Detail

Page 2 of 2

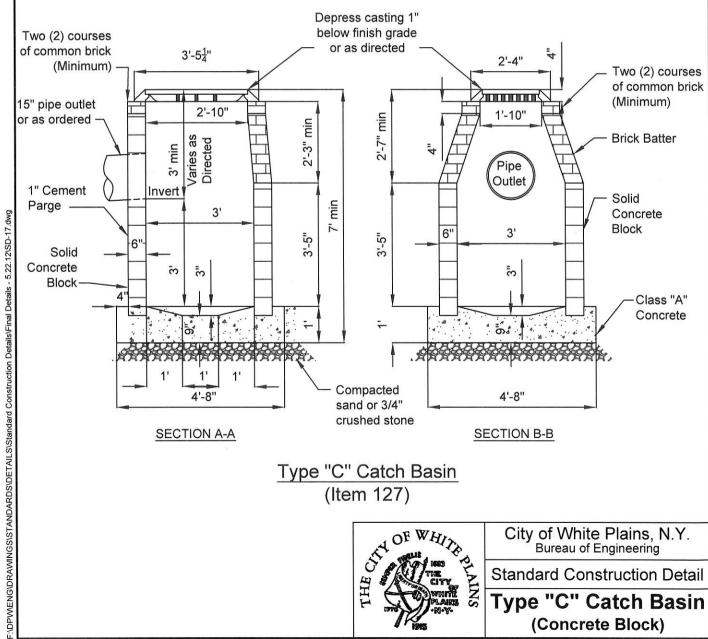
Drop Connections







- 1. Casting shall be depressed 1" below pavement finish grade or as directed.
- 2. Casting and grate shall be equal to pattern No. 3430-A, as manufactured by Campbell Foundry Co., Harrison, N.J., or approved equal.



Type "C" Catch Basin (Item 127)

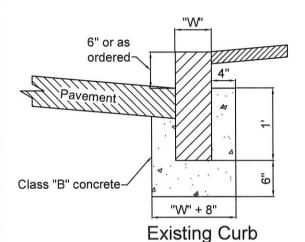


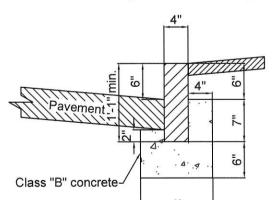
City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Type "C" Catch Basin (Concrete Block)

Concrete Curb (Item 71)





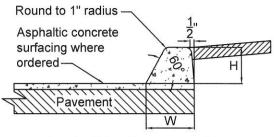
Quarry or Fieldstone Curb (Item 66)

(Items 64 & 65)

NOTES

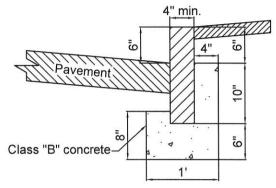
- Granite curb to be split face, sawn top, equal to Type V4x16 for straight curb and V5x16 for radius curb as manufacured by either North Carolina Granite, Williams Stone or Geneva Granite.
- 2. Minimum length of straight curb shall be 4'-0" and radius curb shall be 2'-6".
- 3. 1/4" round or "Buzzed Edge" on front arris line color gray.

When H=4, W=6 (Item 72A)
When H=6, W=8 (Item 72B)
See Standard Construction
Specifications for the type of mixture.

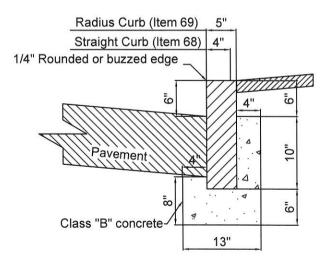


SD-21

Asphaltic Concrete Berm (Item 72)



Bluestone Curb (Item 67)



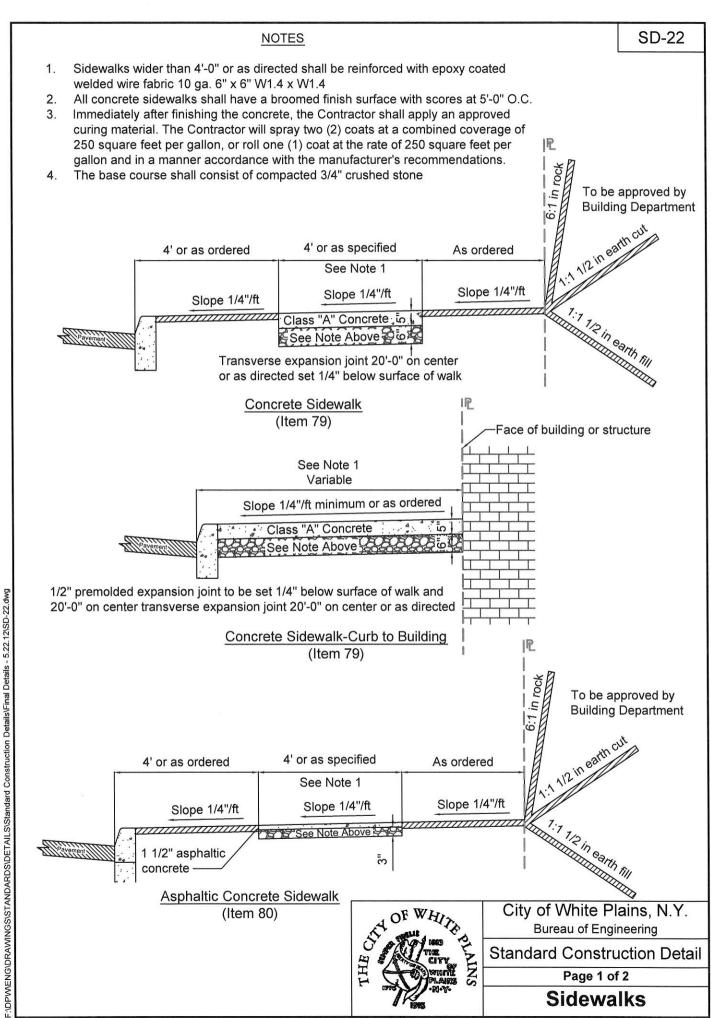
Granite Curb (Items 68 & 69)

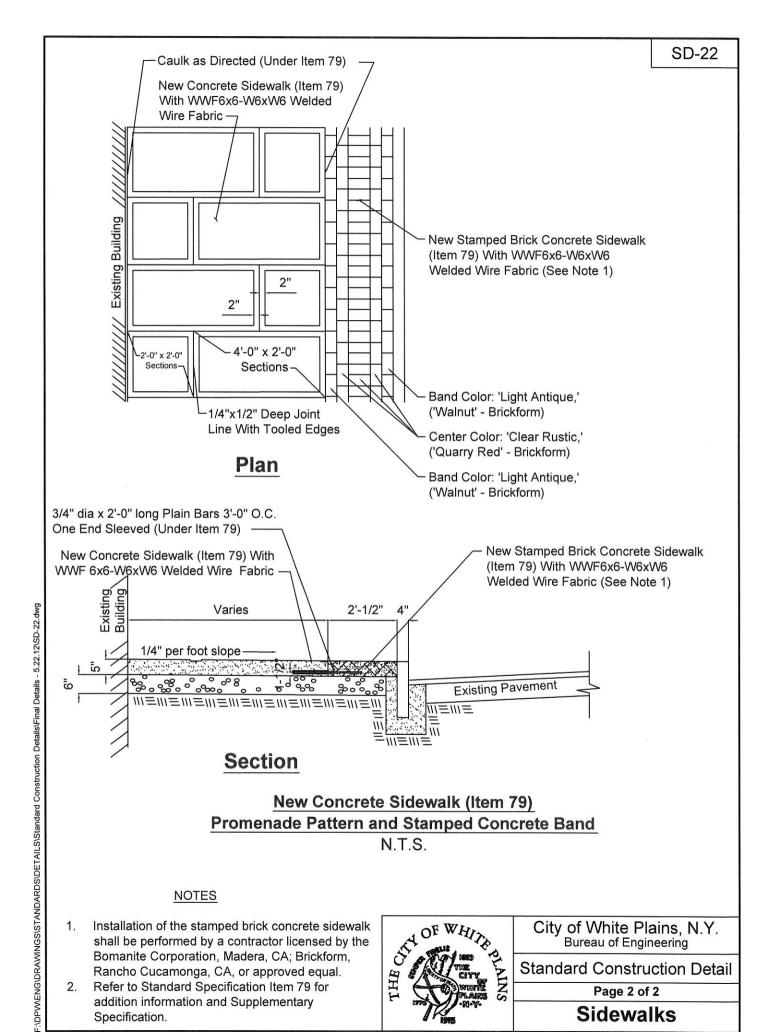


City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Curbs and Berms



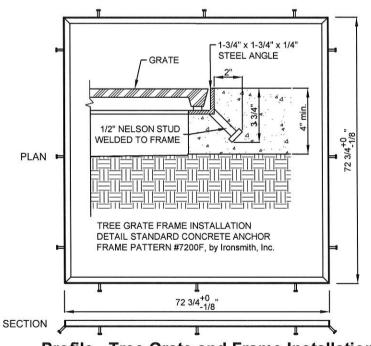


Revised: 05-16-12

6' x 6' Tree Grate With Frame as

Plan View - Promenade Sidewalk with Tree Grate

Scale: N.T.S.



Profile - Tree Grate and Frame Installation

Scale: N.T.S.

Detail - Tree Grate Installation

(Item 207S)



City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

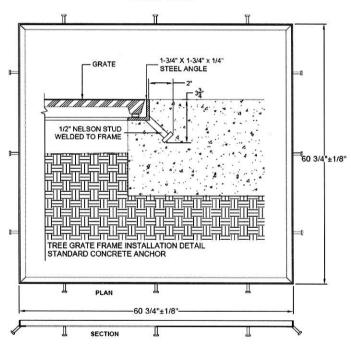
Page 1 of 2

6' Tree Grate & Installation

New 5' x 5' Tree Grate With Frame as

Plan View - Promenade Sidewalk with Tree Grate

Scale: N.T.S.

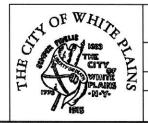


Profile - Tree Grate and Frame Installation

Scale: N.T.S.

Detail - Tree Grate Installation

(Item 207S)



City of White Plains, N.Y.

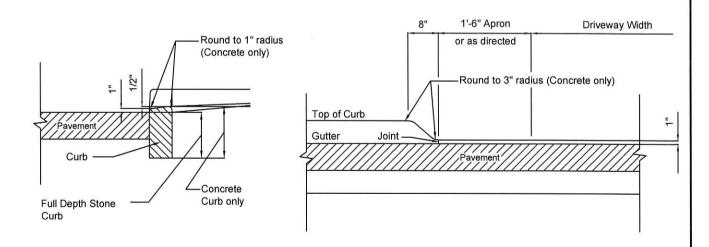
Bureau of Engineering

Standard Construction Detail

Page 2 of 2

5' Tree Grate & Installation

PLAN VIEW - RESIDENTIAL DRIVEWAY



SECTION - DEPRESSED CURB

NOTE

 The base course shall consist of compacted 3/4" crushed stone.

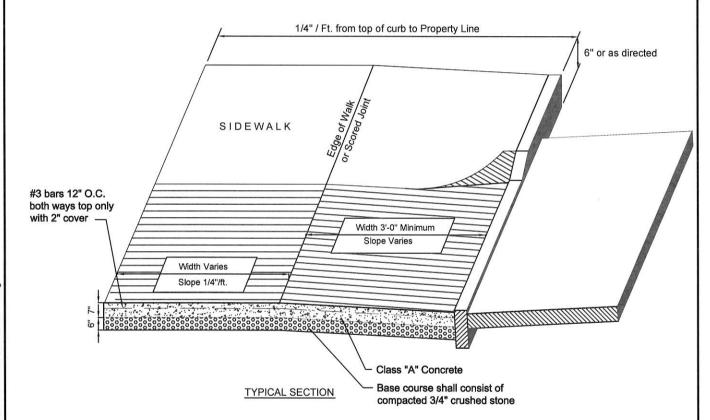


City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 1 of 3

Driveways



REINFORCED CONCRETE DRIVEWAY
(Item 81)

F:\DPWAENG\DRAWINGS\STANDARDS\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-24.dwg

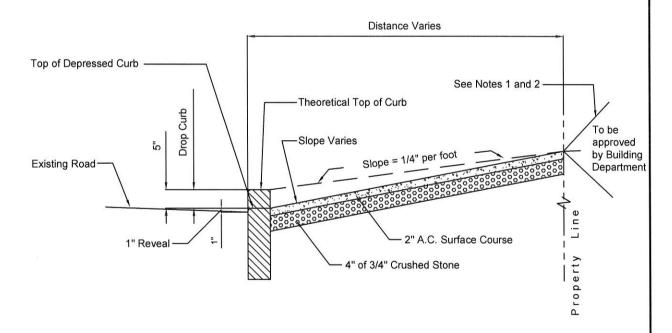
City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Page 2 of 3

Driveways

SECTION AT ASPHALTIC CONCRETE DRIVEWAY WITH CONCRETE SIDEWALK



SECTION AT ASPHALTIC CONCRETE DRIVEWAY WITH NO SIDEWALK

NOTES

- For one and two family residences-Do not exceed 12% Grade from the Property line.
- For Multi Family and Commercial Building- Do not exceed 6% from the Property line for a Distance of 20 L.F. and 12% thereafter.

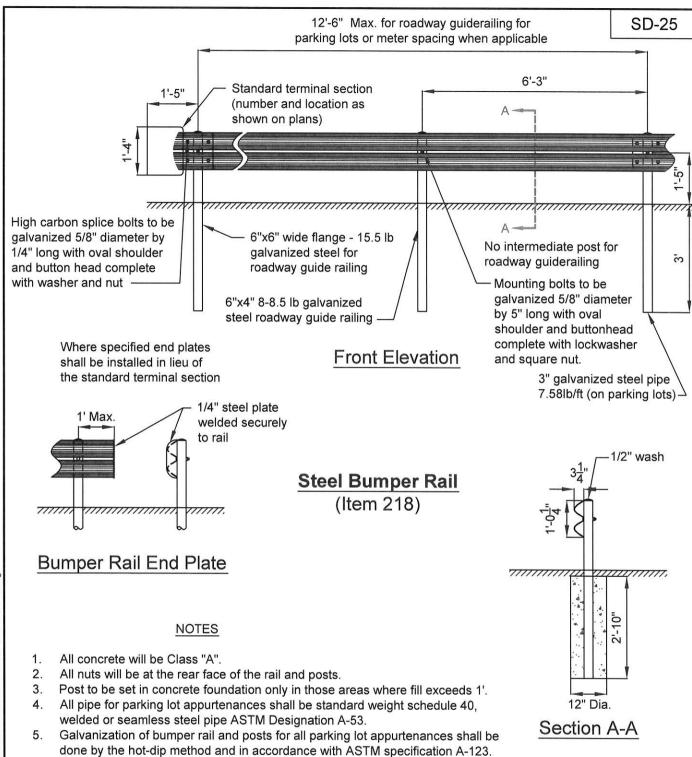


City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Page 3 of 3

Driveways



All steel post for roadway guide railing to be ASTM A-7 structural steel.
 Tops of all posts shall be sawed and burs removed (carefully).
 Galvanized steel bumper to be 10 gauge Flex-beam guard rail as manufactured

by Armco Drainage and Metal Products or approved equal.

to the specified items.

The contractor's attention is directed to the construction specifications pertaining



City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 1 of 2

Parking Lot Appurtenances

Parking Lot Appurtenances

	2
	õ
9	9
1	
1	7
-	K
	-
1	N
i	S
	1
:	<u>≅</u>
-	ã
-	ട്
	_
3	≌
į	Ţ
	2
	ā
1	ဗိ
1	_
	₫
	ರ
ì	2
-	S
	5
1	U
1	2
	a
	Ĕ
-	100
1	2
1	,
-	₹
1	-
1	7
- 2	7
1	õ
- 1	
	Ŋ
	ÄK
	NDAR
	ANDAR
	STANDAR
	SSTANDAR
	SSISTANDAR
	NGS/STANDAR
	MNGS/STANDAR
	AWINGS/STANDAR
	RAWINGS/STANDAR
	DRAWINGS/STANDAR
	G/DRAWINGS/STANDAR
	ENGIDEAWINGS/STANDAR

ITEM NUMBER	TYPE		DIME	NSION	18		REINFORCING MAXIMUM MOMENT IN FT-K AT TOP		USE	NOTES	
		A1	A2	В	С	D thru H		OF EARTH			
153A	"FA-1"	28"	24"	30"	24"		none required		Fire alarm pedestal	D- Bolt diameter and length to be as furnished and certified by pole or controller cabinet manufacturer	
153B	"SL-1"	24"	24"	40"	30"		none required		Street light pole		
153C	"CC-1"	VARIES	VARIES	32"	24"		none required		Controller cabinet		
153D	"TC-1"	16"	16"	30"	30"	S E	none required		Pedestal pole	E- Thickness of base plate + thickness of nut + 1/2"	
153E	"TC-2"	36"	36"	60"	30"	E	Vertical: 8- #5 bars Horizontal: #5 bars 1' o.c.	40 & under		F- Bolt circle as determined by pole manufacturer and shown on shop drawings	
153F	"TC-3"	36"	36"	72"	30"		Vertical: 10-#5 bars Horizontal: #5 bars 1' o.c.	53			
153G	"TC-4"	36"	36"	90"	30"	N	Vertical: 16-#5 bars Horizontal: #5 bars 1' o.c.	85	Traffic control,	G- <u>A-(H+4)</u>	
153H	"TC-5"	36" 48"	36" 48"	108" 90"	30"	O T	Vertical: 16- #5 bars Horizontal: #5 bars 1' o.c.	115	cantilever structures,	2	
1531	"TC-6"	36" 48"	36" 48"	126" 108"	30"	E S	Vertical: 16-#6 bars Horizontal: #5 bars 1' o.c.	154	or strain poles	H- Base plate dimensions furnished on shop drawings to be confirmed by the engineer before setting the forms for the	
153J	"TC-7"	48"	48"	126"	30"]	Vertical: 16-#6 bars Horizontal: #5 bars 1' o.c.	194			
153K	"TC-8"	48"	48"	138"	30"		Vertical: 16- #7 bars Horizontal: #5 bars 1' o.c.	243		concrete base.	

- Anchor Bolts Unless otherwise specified, anchor bolts will be furnished and set by the contractor. Prior to ordering and/or setting anchor bolts, the contractor shall be required to verify all bolt sizes and bolt circles from the shop drawings provided by the manufacturer of the poles.
 - City to furnish anchor bolts and template for bolt locations prior to construction of controller cabinet foundation. Threaded portion at top of anchors to be provided with a heavy coating of grease to prevent concrete adhering to threads.
- 2. <u>Conduit</u> Bottom end of sweep will be the point from which payment for conduit will be measured. The contractor shall connect sweeps to the conduit with couplings or adapters whichever is required. An approved bushing cap shall be placed on all exposed sweeps and plug buried end with oakum and Johns-Manville Dux Seal or approved equal. Cast in place conduit shall extend outside the footing far enough to allow connection of the next conduit section.
- 3. <u>Plumbing Pole</u> A <u>level</u> concrete pad shall be integrally poured on top of types SL-1 and TC-1 bases. The edge of the pad will extend 2" beyond the edges of the metal pole bases, including 1" chamfer. Heavy square nuts under bases TC-2 and larger, shall be used for plumbing pole.
- 4. Work pad In unpaved areas, a concrete work pad shall be poured in front of the controller cabinet door and shall be constructed on accordance with standard detail and specification for concrete sidewalk. It shall consist of 5" Class "A" concrete on 6" crushed stone and be included for payment in Item 153C
- 5. <u>Grounding</u> All poles except type FA-1 shall be grounded by means of 5/16" K2C20 Burndy or approved equivalent grounding stud capable of accommodating all neutral conductors of the system. Ground wire to be installed in 3/4" plastic conduit.
- 6. In grass areas, bases are to extend 1 1/2" above ground surface. All exposed edges are to be chamfered as directed. In concrete areas, 1/2" pre molded joint filler shall be placed all around, and #10 gauge 6"x6"x2' wide welded wire fabric shall be installed 1" below sidewalk finish grade in areas to be replaced, to the limits directed by the engineer. All work to be included in Item 79
 - All excavations for concrete bases shall be dug to the dimensions shown, and the entire excavation filled with concrete. Where, in the opinion the engineer, the excavation is exceptionally large, the base shall be formed with wood or metal, the outside of which shall be completely back filled with "K-Krete".

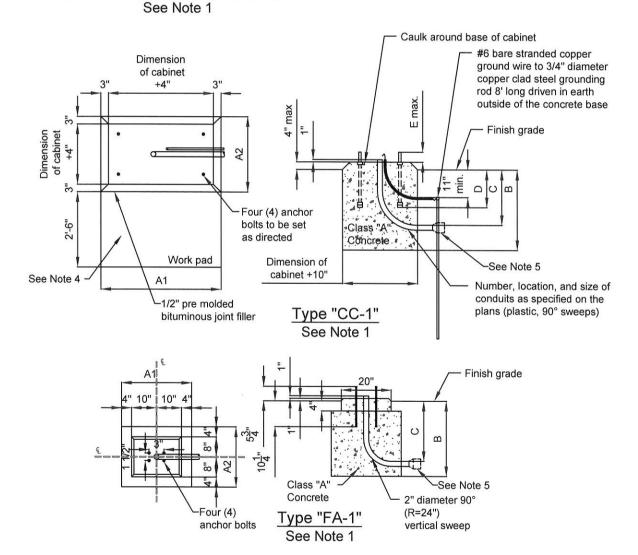


City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 1 of 2

Pole and Pedestal Bases



- Grout topping to be filled in after pole is set and in a plumb position when fully loaded.
- 2. Bottom of sweep = pay limit (Item 145,146, or 147)
- 3. All concrete will be Class "A".



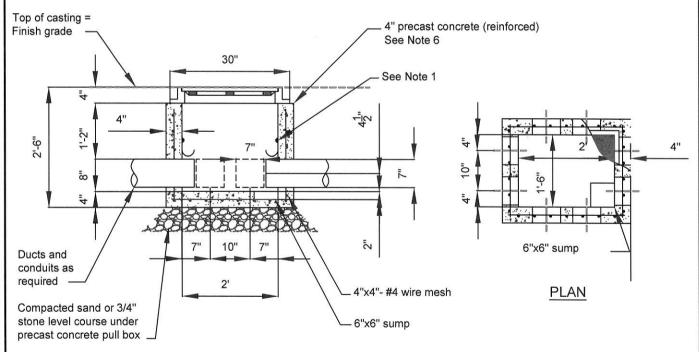
City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 2 of 2

Pole and Pedestal Bases

- 1. A wire support hanger shall be installed at the center of each wall face. Hangers shall be similar to catalog number C-149, as manufactured by Steel City or approved equal.
- 2. Minimum cover over conduit shall be 1'-6".
- 3. Pull box to be cast with two (2) knockouts on each wall.
- 4. Pull boxes to be used in walks and grassed areas only.
- 5. Unless otherwise specified pull boxes shall have letters "TRAFFIC" or "WPSL" cast on the cover as required.
- 6. The minimum compressive strength of the concrete shall be 4000 PSI
- 7. The contractor shall have the option to use 8" brick, 6" concrete block, or 4" precast concrete (reinforced). The concrete block and brick pull boxes shall be constructed on a 6" Class "A" concrete base poured in place.
- 8. The precast concrete structure shall comply with ASTM specifications C478
- 9. All exposed ducts and conduits shall project 3" beyond the wall. Ducts shall be plugged and conduits shall be threaded and capped with an approved bushing.
- 10. Casting and cover shall be equal to pattern No. 3062 with pick holes, as manufactured by the Campbell Foundry Co., Harrison N.J.



TYPICAL SECTION Pull Box (Item 152)



City of White Plains, N.Y.

Bureau of Engineering

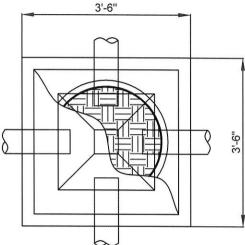
Standard Construction Detail

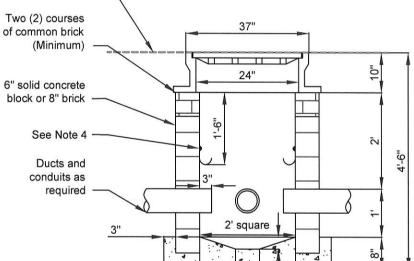
Pull Box

- Unless otherwise specified Traffic Control shall have letters "TRAFFIC", Fire Alarm shall have letters "WPFD", and Street Lighting shall have letters "WPSL" cast on the cover. The cover will have no vent holes.
- Minimum cover over duct will be 2'-6".

Top of casting = Finish grade

- All exposed ducts and conduits shall project 3" beyond the wall. Ducts shall be plugged and conduits shall be threaded and capped with an approved bushing.
- A wire support hanger shall be installed at center of each wall face 2'-6" below finish grade. Hangers shall be similar to catalog number C-149 as manucactured by Steel City or approved equal.
- Casting and cover shall be equal to Pattern No.1130 as manufactured by the Campbell Foundry Co., Harrison, N.J., or approved equal.





PLAN

TYPICAL SECTION
Splice Box
(Item 151)

3'-6" min.



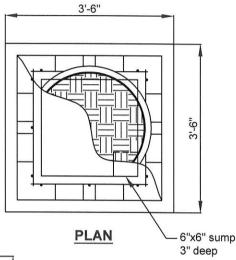
Class "A" Concrete

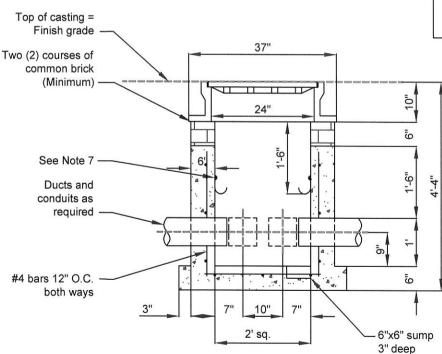
City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Splice Box (Concrete Block)

- Unless otherwise specified Traffic Control shall have letters "TRAFFIC", Fire Alarm shall have letters "WPFD", and Street Lighting shall have letters "WPSL" cast on the cover. The cover will have no vent holes.
- 2. Minimum cover over duct will be 2'-6".
- 3. Splice box to be cast with two (2) knockouts on each wall.
- The minimum compressive strength of the concrete shall be 4000 PSI.
- 5. The precast concrete structure shall comply with ASTM specifications C478
- All exposed ducts and conduits shall project 3" beyond the wall. Ducts shall be plugged and conduits shall be threaded and capped with an approved bushing.
- A wire support hanger shall be installed at center of each wall face 2'-6" below finish grade. Hangers shall be similar to catalog number C-149 as manufactured by Steel City or approved equal.
- Casting and cover shall be equal to Pattern No.1130 as manufactured by the Campbell Foundry Co., Harrison, N.J., or approved equal.





TYPICAL SECTION SPLICE BOX

(Item 151)

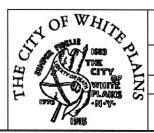


City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Splice Box (Precast Concrete)

- Hydrant to be equal to Mueller Super Centurion Catalog No. A-423, opening counterclockwise, 5 1/4" valve and 6" D-150 mechanical joint inlet connection. Nuts & bolts on bonnets and mechanical joints to be stainless steel.
- 2. Gate valves shall be equal to Mueller Co., style A-2360, opening counterclockwise and shall have stainless steel nuts and bolts.
- The contractor shall paint the hydrants with two coats of paint where indicated on the detail.
 The city standard colors shall consist of "Fire Hydrant Red" (No. 1210) and "Yellow" (No. 659) as manufactured by "Rustoleum"
- 4. Unless otherwise specified hydrants and hydrant leads, valves, bends, plugs, and caps shall be anchored as shown above. After installation, rods and clamps should be thoroughly covered with asphalt or other acceptable corrosion retarding material. In general, the method and types of material required to install clamps and tie rods shall be in accordance with the latest National Fire Protection Agency standards. No direct payment will be made, payment shall be included under item bid.
- 5. The contractor may substitute a concrete slab in place of the flagstone as shown, provided that the concrete is allowed to set up at least 24 hours prior to installing the hydrant.
- 6. Refer to sheets SD-31 and SD-32 for rodding and thrust block details
- 7. Hydrant's D.I.P. leads shall be installed level.

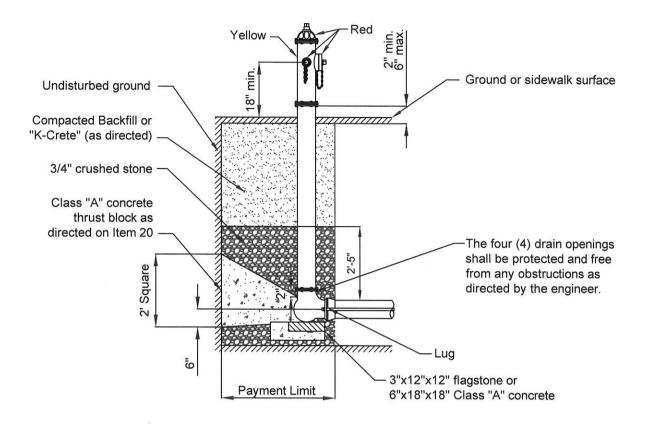


City of White Plains, N.Y. Bureau of Engineering

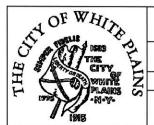
Standard Construction Detail

Page 1 of 2

Water Appurtenances



Pipe	Clamps	Rods	Bolts	Steel Washer
6"	1/2"X2"	3/4"	5/8"	1/2"X3"
8"	5/8"X2- 1/2"	3/4"	5/8"	1/2"X3"
10"	5/8"X2- 1/2"	7/8"	3/4"	1/2"X3"
12"	5/8"X3"	1"	7/8"	1/2"X3- 1/2"



City of White Plains, N.Y.
Bureau of Engineering

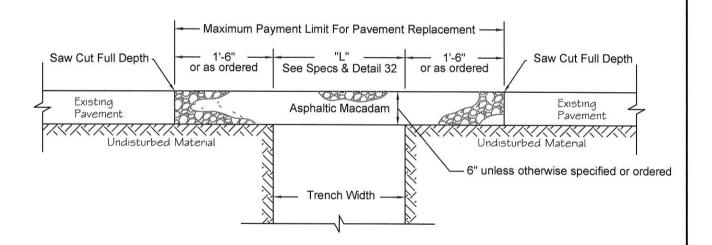
Standard Construction Detail

Page 2 of 2

Water Appurtenances

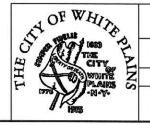
CONCRETE PAVEMENT REPLACEMENT

(Item 56) SCALE = N.T.S.



ASPHALTIC MACADAM PAVEMENT REPLACEMENT

(Item 55) SCALE = N.T.S.



City of White Plains, N.Y.
Bureau of Engineering

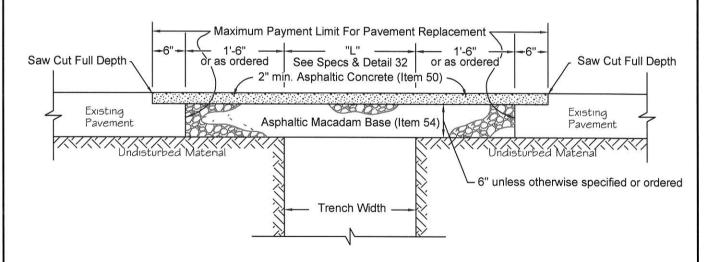
Standard Construction Detail

Page 1 of 2

Pavement Replacements

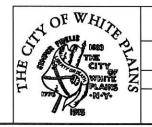
ASPHALTIC CONCRETE ON CONCRETE BASE PAVEMENT REPLACEMENT

(Items 50 & 53) SCALE = N.T.S.



ASPHALTIC CONCRETE ON ASPHALTIC MACADAM BASE PAVEMENT REPLACEMENT

(Items 50 & 54) SCALE = N.T.S.



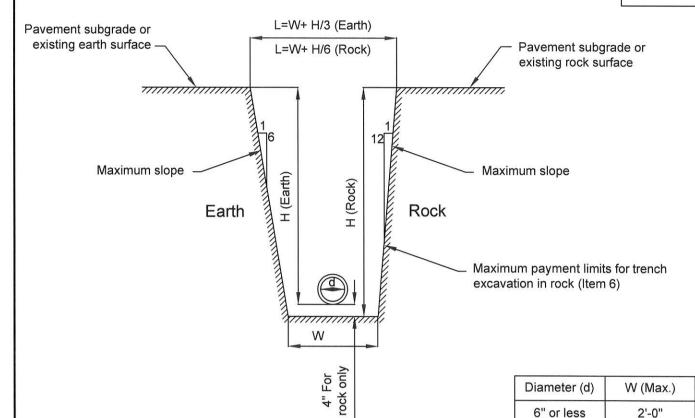
City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

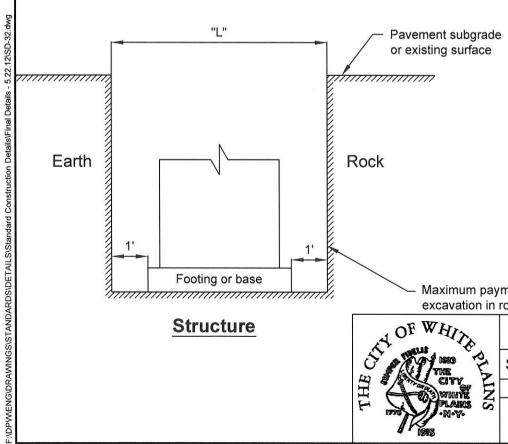
Page 2 of 2

Pavement Replacements





Pipe or Conduit



Diameter (d)	W (Max.)
6" or less	2'-0"
8"	2'-6"
10"-12"	3'-0"
14"-18"	3'-6"
20"-30"	4'-0"
36"	4'-6"
42"	5'-6"
48"	6'-0"
54"	6'-6"
60"	7'-0"
66"	7'-6"
72"	8'-0"
78"	9'-0"
84"	9'-6"
90"	10'-0"
96"	10'-6"

Maximum payment limits for trench excavation in rock (Item 6)

City of White Plains, N.Y. Bureau of Engineering

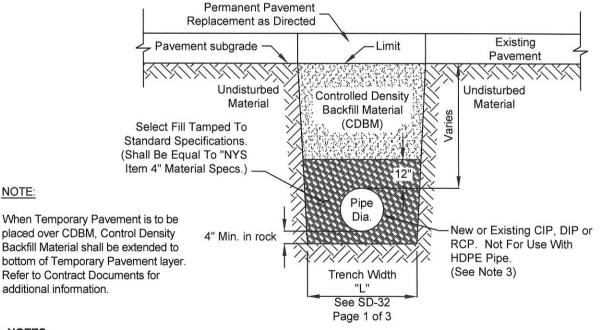
Standard Construction Detail

Page 1 of 3

Trench Excavation

Pipe Trench Backfill (Utilizing In-Situ Soil) Scale = N.T.S.

The use of In-Situ soil as trench backfill requires the placement and maintenance of Temporary Pavement. Refer to Contract Documents for additional information.



GENERAL NOTES:

NOTE:

- See Contract Documents for the type of trench backfill required.
- No direct payment to be made for Select Fill or Controlled Density Backfill Material. Cost to be included in the various Items bid. (See Contract Documents.)
- For HDPE pipe refer to "Trench Backfill", Page 3 of 3.

Pipe Trench Backfill (Utilizing CDBM & Select Fill)

Scale = N.T.S.



City of White Plains, N.Y. Bureau of Engineering

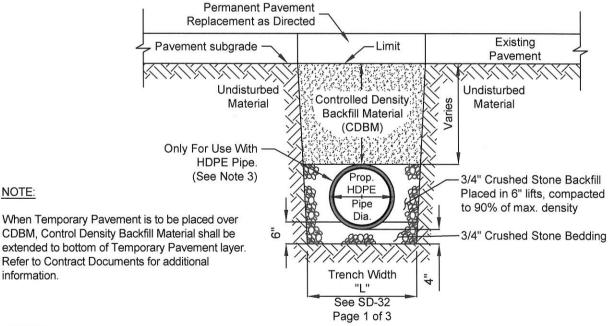
Standard Construction Detail

Page 2 of 3

Trench Backfill

HDPE Pipe Trench Backfill (Utilizing In-Situ Soil) Scale = N.T.S.

The use of In-Situ soil as trench backfill requires the placement and maintenance of Temporary Pavement. Refer to Contract Documents for additional information.



GENERAL NOTES:

- See Contract Documents for the type of trench backfill required.
- No direct payment to be made for Crushed Stone or Controlled Density Backfill Material. Cost to be included in the various Items bid. (See Contract Documents)
- For pipes other than HDPE pipe refer to "Trench Backfill", Page 2 of 3.

HDPE Pipe Trench Backfill (Utilizing CDBM & Select Fill)

Scale = N.T.S.



City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 3 of 3

Trench Backfill

2' + Ball diameter

Balled and

burlapped

۾ تا

1'-3" min.

min.

Rubber hose

Saucer

Existing or proposed grade

See Note 2

Burlap wrapping

Tree as specified

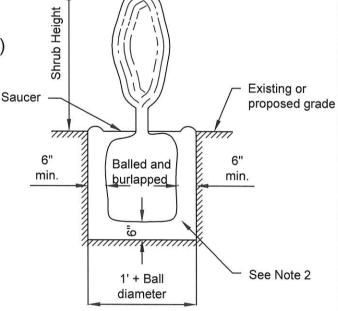
1'-3" min.

min.

min.



- 1. The furnishing and planting of trees and shrubs shall be performed in accordance with the specifications entitled, "Landscaping"
- 2. Fill excavation with a mixture, 20% Peet moss, 80% top soil, and approved organic fertilizer



2" diameter cedar stakes 8'-0" long

Existing or future

curb line

2'-6" min. or as directed

Shrub Planting (Items 197, 198, and 199)



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Tree and Shrub Planting

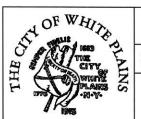
Concrete Foundation For Wall (Item 23)

Rubble Stone Masonry (Item 27)

	MAXIMUM PAYMENT LIMIT						
H(Ft)	"A"	"B"	"C"	"D"	"E"		
1	1'-0"	1'-5"	4"	2'-0"	3"		
2	2'-3"	1'-8"	4"	2'-0"	3"		
3	2'-8"	1'-10"	7"	3'-0"	3"		
4	3'-0"	2'-2"	7"	3'-0"	3"		
5	3'-3"	2'-5"	7"	3'-0"	3"		
6	3'-6"	2'-8"	7"	3'-0"	3"		
7	4'-8"	3'-6"	10"	3'-0"	4"		
8	5'-0"	3'-10"	10"	3'-0"	4"		
9	5'-4"	4'-2"	10"	3'-0"	4"		
10	5'-8"	4'-6"	10"	3'-0"	4"		

NOTES

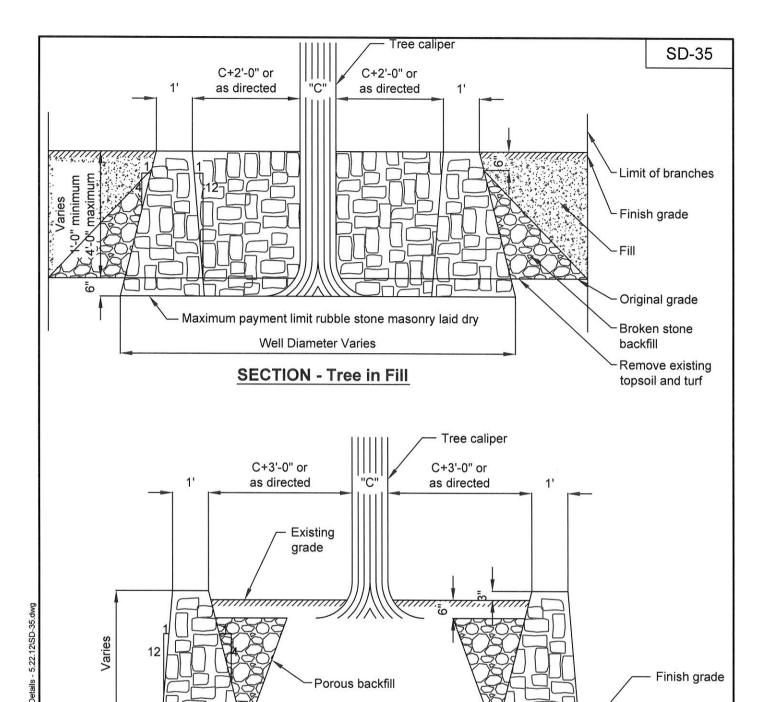
- 1. Where the height (H) of the wall is less than 2'-0", no weep holes or stone for drainage will be required.
- 2. This wall shall be constructed for general use only. No provision has been made for a surcharge load.



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Rubble Stone Masonry Retaining Wall



SECTION - Tree in Cut

Wall Diameter Varies

Max. Payment Unit Rubble

Maximum payment limit rubble stone masonry laid dry

Stone Masonry laid dry.

Rubble Stone Masonry For Tree Well And Wall (Item 29)

NOTES

- The contractor shall protect all exposed and disturbed root structure as directed until the wells are constructed.
- The contractor may lay rubble stone available from the job site, provided that the stone meets the approval of the engineer.



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Rubble Stone Masonry Tree Well and Wall

6

Corner or Terminal Section

500' maximum from end corner to pull section or between pull sections Line post w/ cap Terminal or Pull Post 10' maximum Line post Continuous top rail 1 5/8" w/ approved cap Knuckled finish outer diameter 2.28 lb/ft rod with turnbuckle 1/4"x3/4" square end Class "A" Concrete stretcher bar and 1/8" bands 3'-6" bolted 16" O.C. maximum Class "A" Concrete 10" Dia. #6 gauge galvanized high carbon steel coil spring tension wire or aluminum coated (whichever 12" Dia. specified) fabric ties 12" O.C. maximum or where specified a 1 5/8" bottom rail with ties 24" O.C. "H" LINE POST TERMINAL POST

Pull Section

Chain Link Fence

(Item 224)

 Fence fabric to be 6 Gauge, vinyl coated (BLACK), 2"x2" steel mesh.

NOTES

- All posts, rails, and accessories shall be vinyl coated (BLACK) per specifications.
- 3. Chain link fence shall include barbed wire only where specified.
- 4. Terminal posts shall consist of end, corner, angle, and pull posts.
- Gate posts shall be specified and included under Item 225, entitled "CHAIN LINK GATES". All gates shall be fully welded.
- Rock excavation for post holes shall be paid for under Item 7.
- 7. Concrete will be Class "A"

F\DPVMENG\DRAWINGS\STANDARDS\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-36.dwg



(ft)

5' or less

>5'

City of White Plains, N.Y.
Bureau of Engineering

See Note 2

2" outer diameter

2.72 lb/ft

2 1/2" outer diameter

3.65 lb/ft

Standard Construction Detail

Chain Link Fence

See Note 2

2 1/2" outer diameter

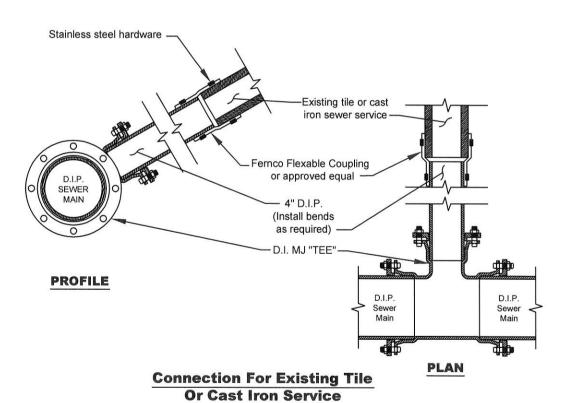
3.65 lb/ft

3" outer diameter

5.79 lb/ft

- Manholes shall be built over sanitary sewer and storm drain lines when: The connection is eight (8) inches and the service line to be connected is greater than five (5) inches or when the main line is more than ten (10) inches and the service line to be connected is greater than six (6) inches.
- The connection shall be made by a plumber licensed by the City of White Plains and all work approved by the Bureau of Sewers.

Saddle Connection to Existing Cast Iron, **Ductile Iron, Tile, or Concrete Pipe** (Item 134)



NOTES

- 1. D.I. MJ "Wyes" may be used in lieu of "TEES" if field conditions permit it and with prior approval of the Engineer.
- 2. Refer to contract drawing for trench backfill details.
- 3. Fernco flexible couplings inner diameter shall match the outer diameter of the host pipe.
- 4. Fernco flexible coupling shall have stainless steel hardware.



City of White Plains, N.Y. Bureau of Engineering

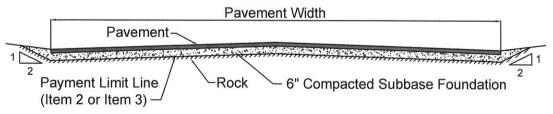
Standard Construction Detail

Sanitary Sewer Service to Main Connection

Typical Section

NOTES

- The contractor shall construct the pavement as shown on the contract plans, including a subbase foundation where specified. The subbase shall consist of a select fill material as described in the specifications and shall be paid for under Item 12, entitled "Select Fill".
- 2. The subgrade foundation shall consist of subgrade fill as described in the specifications. Unless there is a deficiency in subgrade material on the site(s) under this contract, no direct payment shall be made, payment shall be included under the unit price bid for Item 2 or Item 3, entitled "Unclassified Excavation" and "Earth Excavation", respectively. Where there is a deficiency of material, the payment shall be made under Item 13, entitled "Subgrade Fill".
- 3. The embankment foundation shall consist of embankment fill as described in the specifications. The method of payment shall be as described above for subgrade foundation, except where there is a deficiency of material, payment shall be made under Item 14, entitled "Embankment Fill".



Typical Pavement Section In Rock

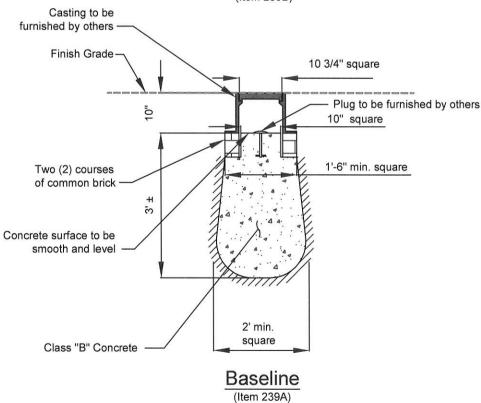


City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Earthwork Foundations

Property Line (Item 239B)



NOTES

- Unless otherwise specified, monuments are to be set by a surveyor licensed by the State of New York in accordance with the specifications.
- All concrete will be Class "B" poured against undisturbed material.

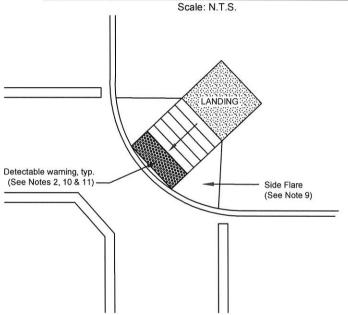


City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Survey Monuments

Curb Ramp With Side Flares Typical Dimensioning



Curb Ramp Configuration

Scale: N.T.S.

NOTES

LANDINGS

- Landings shall have a Minimum clear dimension of a 5'-0" by 5'-0".
- The Running and Crossing Slopes on Landings at intersections is 1:50 (2%) Maximum. The Running and Crossing Slopes at Midblock Crossings may be warped to meet street grades.
- The contractor's attention is directed to SD-22 for the construction details of the walk.
- The location of the ramps shall be established in the field by the engineer.
- Payment for the construction of the ramps as shown shall be included in the unit price bid for Items 79 and 80.
- Payment for removal, resetting, and/or replacing the existing curb shall be paid under Items 64 thru 72.
- Where directed concrete curb shall be made integral with concrete sidewalk. Concrete curb shall be included under Item 79A.
- Pedestrian ramps to be located between crosswalk lines.
- Exact locations of pedestrian ramps may vary due to existing obstructions.

GENERAL

- The dimensions and slopes presented in the details are the minimum necessary to comply with the ADA and NYSDOT standards. Any deviation less than the minimum width or greater than the maximum slope from these standards must be documented with the standards being met to the greatest extent practicable and consistent with the most current ADAAG.
- Curb ramps and blended transitions shall require the use of detectable warning surfaces as per latest ADAAG and NYSDOT standards.

CURB RAMPS

- 3. The Minimum width for sidewalk Curb Ramps is 5' 0".
- The running slope of a Curb Ramp shall be 1:20 (5%) Minimum (Preferred) and 1:12 (8.33%) Maximum.
- Where the slope of the roadway exceeds 8.33% the Curb Ramp length is the length necessary to meet the existing sidewalk, except that it need not be more than 15' - 0" in length.
- The cross slope of Curb Ramps should be as flat as possible, not to exceed 1:50 (2%). The cross slope at midblock crossings may be warped to meet street grade.
- The vertical alignment of a Curb Ramp, excluding the Flares, shall be Planar. Grade breaks shall be flush and perpendicular to the direction of the Ramp Run.
- Ramp transitions between Walks, Landings, Gutters, or Streets shall be flush and free of aburpt vertical changes (1/4" Max).
- Where a pedestrian circulation path crosses the Curb Ramp, Flared Sides with a slope of 10% Maximum, measured parallel to the Curb Line, shall be provided.

DETECTABLE WARNING

Retrofit*:

 Detectable warning surfaces shall be equal to the following: <u>New construction*:</u> Cast-in-Place Composite Tactile,

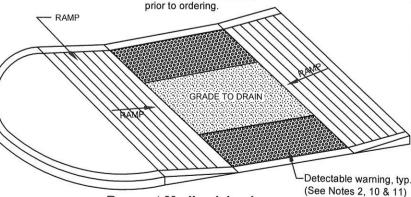
24"x60" with 2.35" dome spacing. Surface Mount Composite Tactile,

24"x60" with 2.35" dome spacing.
As manufactured by ADA Solutuons, Inc., or

approved equal.

For radius curb ramp applications, Radius Section

- Tactiles shall be used and cut-sheet must be submitted for approval prior to ordering.
- 11. Detectable warning surface color shall be equal to Fed.
 Col. #20109, Brick Red. Contractor to submit cut-sheet



Ramp at Median Islands
Non-elevated Crossing

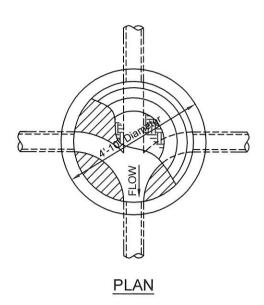
Scale: N.T.S.



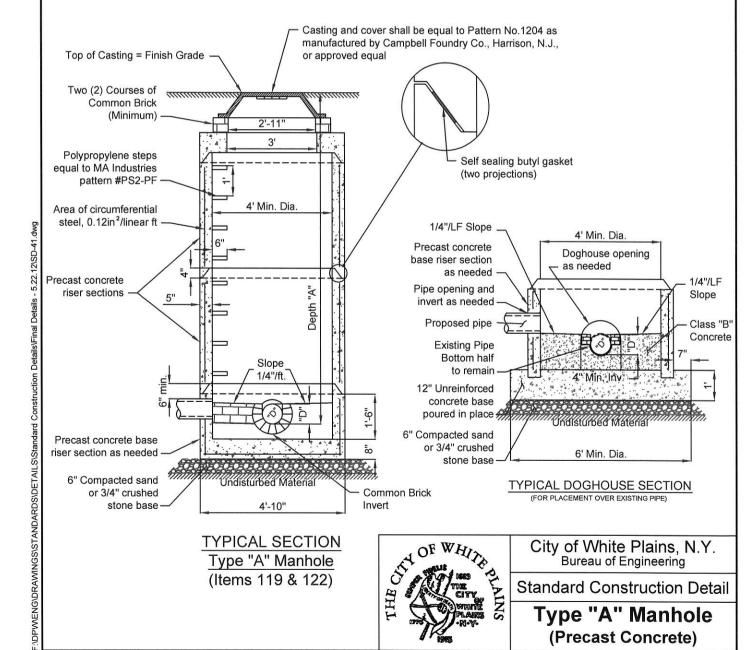
City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

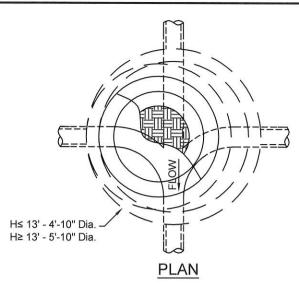
Pedestrian Ramp (Sidewalk and Crosswalk-Mall)



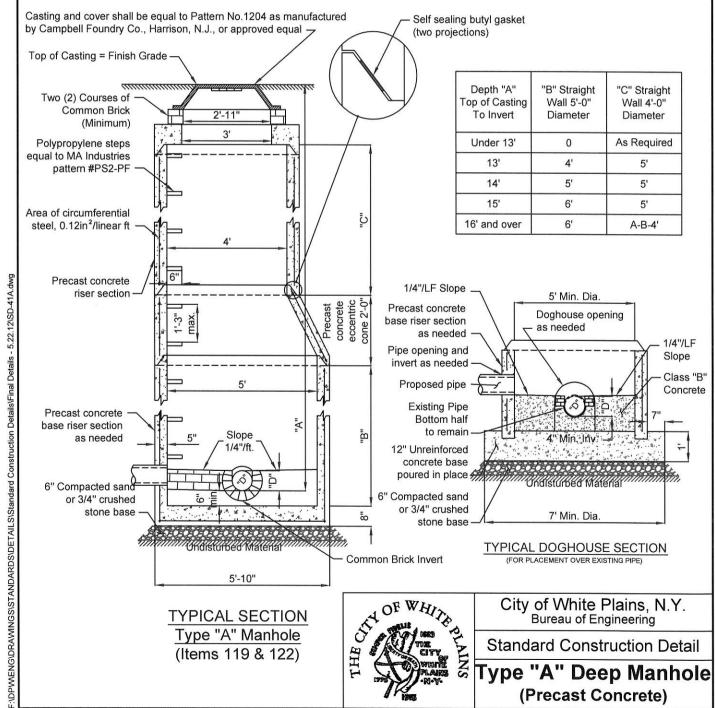
- 1. Unless otherwise specified Sanitary Sewer manholes shall have letters "SEWER" and Storm Drain manholes shall have letters "DRAIN" cast on the covers.
- 2. The precast structure shall comply with ASTM specifications C478.
- 3. When depth "A" is greater than 10'-0", shall be paid for under Item 122.
- All sanitary sewer manholes are to be constructed with the compression type resilient seal assembly equal to "Omega Concrete Products Inc.'
- 5. It shall be the contractors responsibility to furnish and construct the proper size structure including the necessary openings to accomodate the work, as shown on the plans or ordered by the engineer, at no additional cost to the city.
- 6. All inlet and outlet connections in Sanitary Sewer Manholes shall be water tight.
- All necessary patching shall be accomplished with non-shrinking cement mortar grout equal to "Sika-set" as manufactured by the Sika Chemical Corp.
- 8. Cover for sanitary sewer manholes shall be Campbell, "Flow-Seal" type, with a 3/4" threaded hole located adjacent to the pick hole, 4" from the edge of cover.
- 9. Detail is applicable for depth "A" less than 13'-0". For "A" greater than or equal to 13'-0", use "Type A" precast concrete deep manhole as shown on standard detail SD41A.



(Precast Concrete)

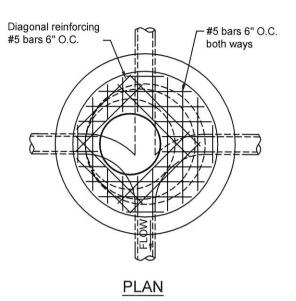


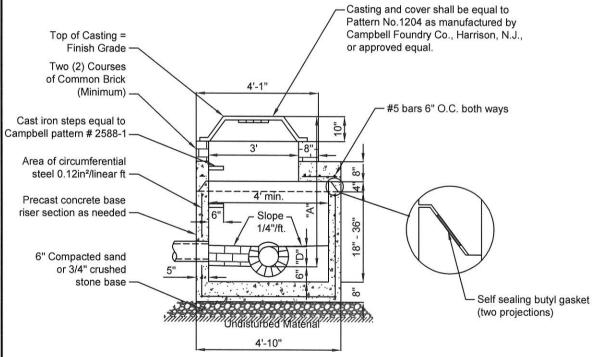
- 1. Unless otherwise specified Sanitary Sewer manholes shall have letters "SEWER" and Storm Drain manholes shall have letters "DRAIN" cast
- 2. The precast structure shall comply with ASTM specifications C478.
- 3. When depth "A" is greater than 10'-0", shall be paid for under Item 122.
- All sanitary sewer manholes are to be constructed with the compression type resilient seal assembly equal to "Hudson Valley
- 5. It shall be the contractors responsibility to furnish and construct the proper size structure including the necessary openings to accomodate the work, as shown on the plans or ordered by the engineer, at no additional cost to the city.
- All inlet and outlet connections in Sanitary Sewer Manholes shall be water tight.
- All necessary patching shall be accomplished with non-shrinking cement mortar grout equal to "Sika-set" as manufactured by the Sika Chemical Corp.
- 8. Cover for sanitary sewer manholes shall be Campbell, "Flow-Seal" type, with a 3/4" threaded hole located adjacent to the pick hole, 4" from the edge of cover.



(Precast Concrete)

- 1. Type "B" Manhole shall be used where depth "A" is 5'-0" or less.
- Unless otherwise specified Sanitary Sewer manholes shall have letters "SEWER" and Storm Drain manholes shall have letters "DRAIN" cast on the covers.
- 3. The precast structure shall comply with ASTM specifications C-478.
- All sanitary sewer manholes are to be constructed with the compression type resilient seal assembly equal to "Omega Concrete Products Inc."
- It shall be the contractors responsibility to furnish and construct the proper size structure including the necessary openings to accommodate the work, as shown on the plans or ordered by the engineer, at no additional cost to the city.
- All inlet and outlet connections in Sanitary Sewer Manholes shall be water tight.
- All necessary patching shall be accomplished with non-shrinking cement mortar grout equal to "Sika-set" as manufactured by the Sika Chemical Corp.
- Cover for sanitary sewer manholes shall be Campbell, "Flow-Seal" type, with a 3/4" threaded hole located adjacent to the pick hole, 4" from the edge of cover.
- For placement over existing pipe see SD-41A for Typical Doghouse Section.





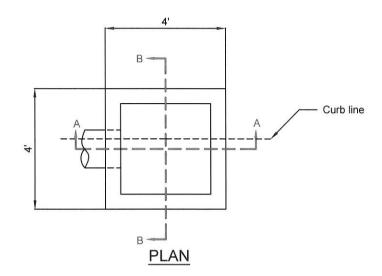
TYPICAL SECTION
Type "B" Manhole
(Item 120)



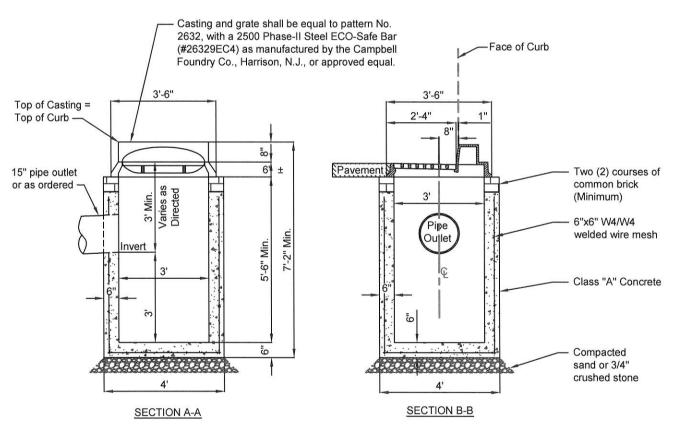
City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

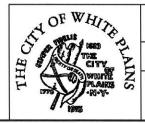
Type "B" Manhole (Precast Concrete)



- The precast concrete structure shall comply with ASTM specifications C478.
- It shall be the contractors responsibility to furnish and install the proper size structure including the necessary openings to accommodate the work, as shown on the plans or ordered by the engineer, at no additional cost to the city.
- All necessary patching shall be accomplished with non-shrinking cement mortar grout equal to "Sika-set" as manufactured by the Sika Chemical Corp.
- The minimum compressive strength of the concrete shall be 4000 PSI.
- Reinforcing will be a 6"x6" 4 guage welded wire mesh, as per ASTM A-185.



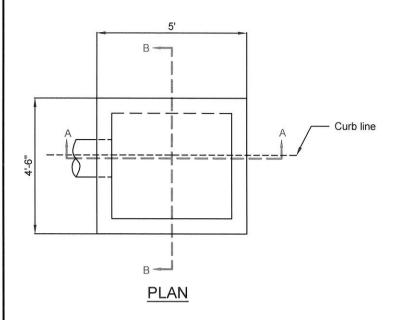
Type "A" Catch Basin (Item 125)



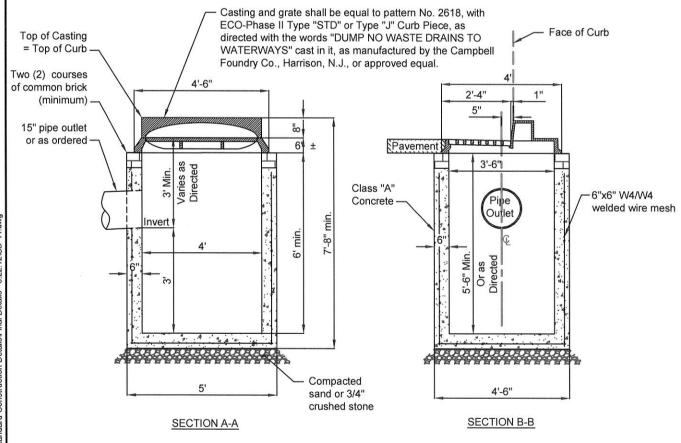
City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

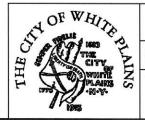
Type "A" Catch Basin (Precast Concrete)



- The precast concrete structure shall comply with ASTM specifications C478.
- It shall be the contractors responsibility to furnish and install the proper size structure including the necessary openings to accommodate the work, as shown on the plans or ordered by the engineer, at no additional cost to the city.
- All necessary patching shall be accomplished with non-shrinking cement mortar grout equal to "Sika-set" as manufactured by the Sika Chemical Corp.
- The minimum compressive strength of the concrete shall be 4000 PSI.
- Reinforcing will be a 6"x6" 4 guage welded wire mesh, as per ASTM A-185.



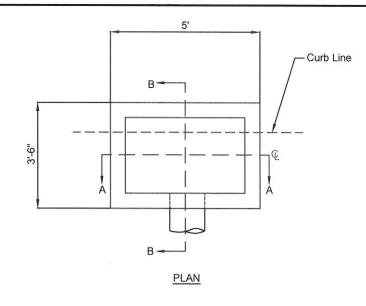
Type "B" Catch Basin (Item 126)



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

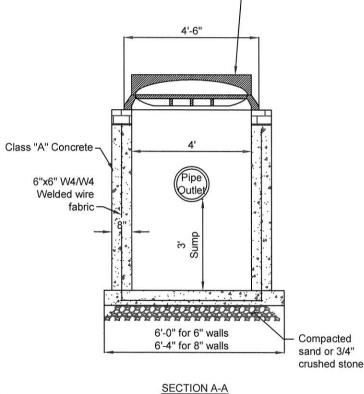
Type "B" Catch Basin (Precast Concrete)



- The precast concrete structure shall comply with ASTM specifications C478.
- It shall be the contractors responsibility to furnish and install the proper size structure including the necessary openings to accommodate the work, as shown on the plans or ordered by the engineer, at no additional cost to the city.
- All necessary patching shall be accomplished with non-shrinking cement mortar grout equal to "Sika-set" as manufactured by the Sika Chemical Corp.
- The minimum compressive strength of the concrete shall be 4000 PSI.
- Reinforcing will be a 6" x 6" 4 guage welded wire mesh, as per ASTM A-185.
- Wall Thickness: 8" common brick, 8" concrete brick 6" poured concrete or precast concrete sections.
- Outside of common brick or concrete block to be plastered with 1/2" coat of cement mortor.

Face of Curb

Casting and grate shall be equal to pattern No. 2617, with ECO-Phase II Type "STD" or Type "J" Curb Piece, as directed, with the words "DUMP NO WASTE DRAINS TO WATERWAYS" cast in it, as manufactured by the Campbell Foundry Co., Harrison, N.J., or approved equal



Pavement 2'-6"

Class "A" Concrete

6"

6"

6"

Key We/We

Welded wire fabric

4'-6" for 6" walls

4'-10" for 8" walls

SECTION B-B

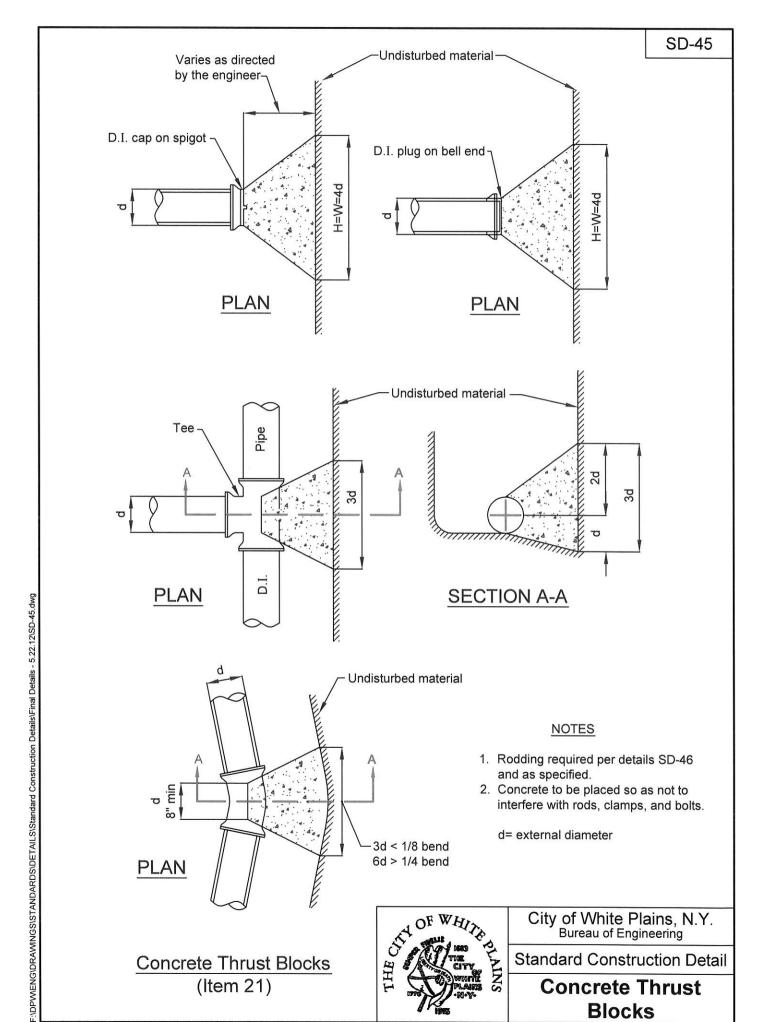
Modified
Type "B" Catch Basin
(Item 126)



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Modified
Type "B" Catch Basin
(Precast Concrete)



Revised: 5-9-07

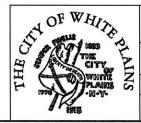
Harnessing Schedule							
Pipe	Deflection						
Diameter	11-1/4°	22-1/2°	45°	90°	End		
4" and 6"	10'	10'	10'	14'	10'		
8"	10'	10'	10'	14'	11'		
10"	10'	10'	10'	15'	12'		
12"	10'	10'	11'	18'	13'		
14"	10'	10'	13'	21'	16'		
16"	10'	10'	15'	24'	19'		
NOTES:							

- The distances shown are the lineal feet of pipe to be rodded on each side of the fitting or lineal feet of pipe rodded back from a plugged dead end.
- The limits shown above may be increased where specifically shown on the plans or details.

Tie Rod Size				
Pipe Diameter	Rod Diameter	Bolt Diameter		
4"	3/4"	5/8"		
6"	3/4"	5/8"		
8"	3/4"	5/8"		
10"	7/8"	3/4"		
12"	1"	7/8"		
14"	1 1/8"	1"		
16"	1 1/8"	1"		

Anchorage										
	D 1		Pipe Diameter (d)							
	Bend	6"	8"	10"	12"	14"	16"			
	А	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"			
	В	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"			
45° bend	С	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"			
	D	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"			
	Rod Diameter	3/4"	3/4"	7/8"	1"	1 1/8"	1 1/8"			
	А	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"			
	В	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"			
22-1/2 ° bend	С	2'-6"	3'-0"	3'-6"	3'-6"	4'-0"	4'-6"			
	D	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"			
	Rod Diameter	3/4"	3/4"	3/4"	7/8"	1"	1"			
	А	2'-0"	2'-0"	2'-6"	2'-6"	3'-0"	3'-6"			
	В	1'-6"	2'-0"	2'-6"	2'-6"	3'-0"	3'-6"			
11-1/4° bend	С	2'-0"	2'-6"	2'-6"	3'-6"	4'-0"	4'-6"			
	D	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"			
	Rod Diameter	3/4"	3/4"	3/4"	7/8"	1"	1"			

Clamp Size		
D.I. Pipe Diameter	Clamp	
4" and 6"	1/2"x 2"	
8" and 10"	5/8"x 2 1/2"	
14"	3/4"x 4"	
16"	3/4"x 4"	



City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 1 of 4
Rodding Detail

THE DISTANCES SHOWN ARE THE LINEAL FEET OF PIPE TO BE RESTRAINED ON EACH SIDE OF THE FITTING OR THE LINEAL FEET OF PIPE RESTRAINED BACK FROM A PLUGGED DEAD END.

REQUIRED FIELD CONDITIONS:

- A. MAXIMUM WATER TEST PRESSURE OF 150 P.S.I.
- B. MINIMUM PIPE COVER OF 3'-6".
- * RESTRAINED LENGTH VALUES FOR CONDITIONS OTHER THAN THOSE LISTED ABOVE ARE NOT VALID. SEPARATE CALCULATIONS SHALL BE PROVIDED.

		HORIZONTAL BENDS VERTICAL UP BENDS					VEF	RTICAL D	OWN BEN	NDS			
		11-1/4	22-1/2	45*	90°	11-1/4	22-1/2	45°	90.				90°
			-							OF BEN			
	6	3	6	12	28	3	6	12	28	7	14	30	72
	8	4	7	15	36	4	7	15	36	9	18	38	92
	10	4	9	18	44	4	9	18	44	11	22	46	112
_	12	5	10	21	51	5	10	21	51	13	26	54	131
Ē	14	6	12	24	58	6	12	24	58	15	30	62	150
	16	6	13	27	65	6	13	27	65	17	33	70	168
FITTING DIAMETER	18	7	14	30	71	7	14	30	71	18	37	77	186
0 9	20	8	15	32	78	8	15	32	78	20	40	84	204
	24	9	18	37	90	9	18	37	90	23	48	99	240
됴	30	11	22	46	111	11	22	46	111	28	58	121	292
	36	13	26	54	131	13	26	54	131	30	68	141	341
	42	15	30	62	150	15	30	62	150	36	77	161	388
	48	17	34	70	170	17	34	70	170	40	86	180	434

DEAD ENDS				
	+ 1 0			
	* , K	EQUIRED RESTRAINED		
		LENGTH, (FT)		
	6	72		
	8	92		
	10	112		
_	12	131		
ق.	14	150		
É	16	168		
FITTING DIAMETER (in)	18	186		
G D	20	203		
Ē	24 30	237		
压	30	284		
	36	327		
	42	367		
	48	405		

	٦	ree's
		RED RESTRAINED LENGTH, (FT)
	6 x 6	53
	8 x 8	74
	10 x 10	93
_	12 x 12	112
ق =	14 x 14	131
臣	16 x 16	149
A	18 x 18	167
0 9	20 x 20	183
FITTING DIAMETER (in)	24 x 24	217
⊏	30 x 30	264
	36 x 36	307
	42 x 42	347
	48 x 48	384

REDUCERS * 3 REQUIRED RESTRAINED LENGTH, (FT) 8 × 6 39 10 × 8 38 12 × 10 38 14 × 12 38 16 × 14 38 18 × 16 38 20 × 18 38 24 × 20 71 30 × 24 99 36 × 30 99 42 × 36 95 48 × 42 94 54 × 48 98						
Second S		REDUCERS				
S x 6 39 10 x 8 38 12 x 10 38 14 x 12 38 16 x 14 38 18 x 16 38 20 x 18 38 24 x 20 71 30 x 24 99 36 x 30 99 42 x 36 95 48 x 42 94		* 3 REQUIF	RED RESTRAINED			
10 x 8 38 12 x 10 38 14 x 12 38 16 x 14 38 18 x 16 38 20 x 18 38 24 x 20 71 30 x 24 99 42 x 36 95 48 x 42 94		LEN	GTH, (FT)			
12 x 10 38 14 x 12 38 16 x 14 38 18 x 16 38 20 x 18 38 24 x 20 71 30 x 24 99 36 x 30 99 42 x 36 95 48 x 42 94		8 x 6	39			
14 x 12 38 16 x 14 38 18 x 16 38 20 x 18 38 24 x 20 71 30 x 24 99 36 x 30 99 42 x 36 95 48 x 42 94		10 x 8	38			
HELLEY TO SHELLEY TO S		12 x 10	38			
42 x 36 95 48 x 42 94	~	14 x 12				
42 x 36 95 48 x 42 94	<u>ت</u>					
42 x 36 95 48 x 42 94						
42 x 36 95 48 x 42 94	A	20 x 18				
42 x 36 95 48 x 42 94	0					
42 x 36 95 48 x 42 94	É	30 x 24	99			
48 x 42 94	Ш		99			
			95			
54 x 48 98			94			
		54 x 48	98			

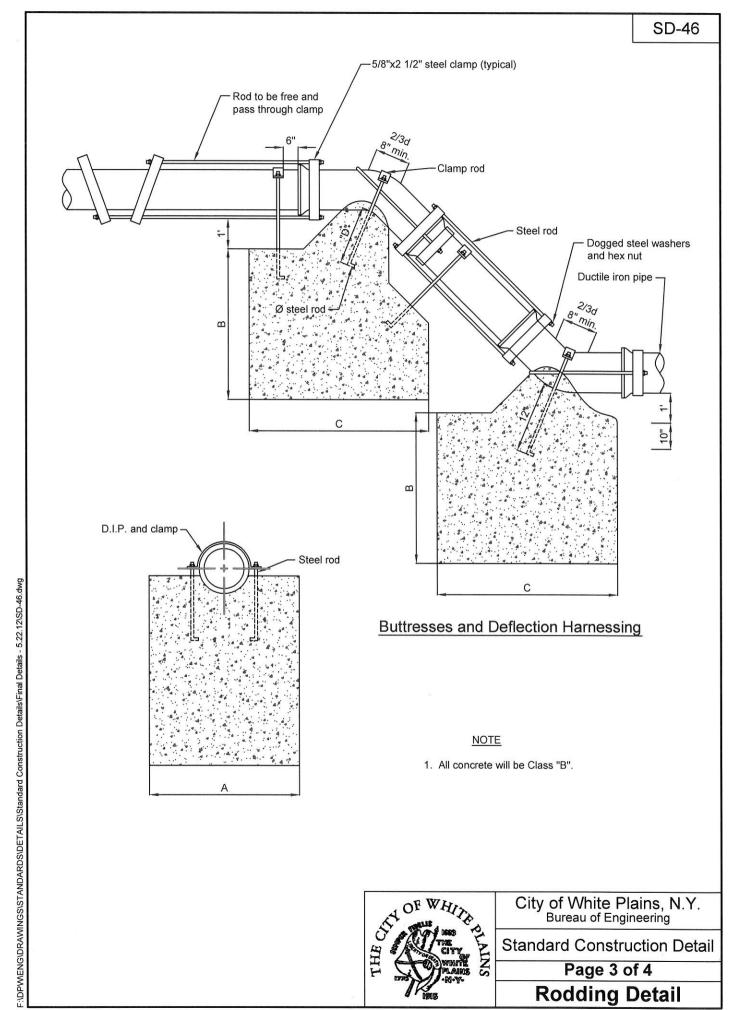
- 1. LENGTH OF PIPE TO BE RESTRAINED BACK FROM A PLUGGED DEAD END.
- ². 12-FT MINIMUM TOTAL LENGTH REQUIRED BETWEEN FIRST JOINTS ON EITHER SIDE OF "TEE" ON THE RUN.
- 3. REQUIRED RESTRAINED LENGTH FOR LARGER DIAMETER PIPE.



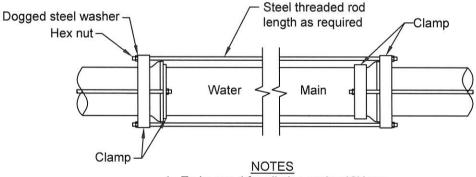
City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Page 2 of 4
Rodding Detail



Double Clamp Detail



- 1. To be used for all pipe under 12' long.
- 2. Also preferred method for all lengths

Full Length Clamp Detail

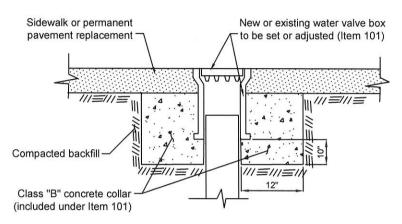


City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 4 of 4

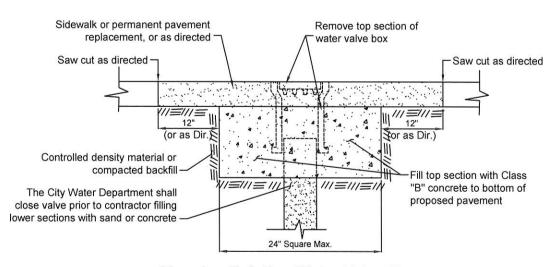
Rodding Detail



Scale: N.T.S.

Set or Adjust New or Existing Water Valve Boxes (Item 101)

Scale: N.T.S.



Abandon Existing Water Valve Boxes

(Item 166 or as specified)

Scale: N.T.S.



City of White Plains, N.Y.
Bureau of Engineering

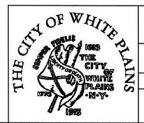
Standard Construction Detail

Set, Adjust or Abandon
Castings and Water Valve Boxes

F:\DP\MENG\DRAWINGS\STANDARDS\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-48.dwg

TYPICAL SOIL EROSION & SEDIMENT CONTROL DETAILS GENERAL NOTES

- 1. Contractor shall be responsible for compliance with all soil erosion and sediment control practices.
- All work shall be performed in accordance with the approved Storm Water Pollution Prevention Plan (SWPPP) if applicable, and/or with the soil erosion and sediment control requirements specified by the NYSDEC Standards and Specifications for Erosion and Sediment Control (latest edition), and City of White Plains Department of Public Works (DPW) standards for erosion and sediment control.
- In the event of conflict between these specification requirements and pollution control laws, rules, regulations or permit conditions by other federal or state or local government agencies, the more restrictive laws, rules or regulations shall apply.
- 4. The temporary sediment and erosion control practices are to be installed prior to any soil disturbances, and maintained until permanent protection is established.
- The temporary control provisions shall be coordinated with the permanent erosion and sediment control features as specified to assure effective and continuous soil erosion and sediment control throughout the construction and post construction period.
- 6. Soil erosion and sediment control measures shall be inspected and maintained by the Contractor during the life of the project, including winter shutdown, etc. Such inspection and maintenance shall continue until after the permanent stabilization measures are in place and the temporary control measures are ordered to be removed by the Engineer.
- 7. Timely maintenance of sediment control practices is the responsibility of the Contractor. All practices shall be maintained in good working order at all times. The sediment level in all practices shall be closely monitored and sediment removed promptly when maximum levels are reached or as ordered by the Engineer. All sediment control practices shall be inspected by the end of each work day, prior to every weekend, before and after each rainfall of 0.5" or greater within a 12 hour period, or as directed by the Engineer in order to insure proper operation.
- 8. Where erosion control materials have been used on final grade that have been permanently seeded, the Contractor shall care for the areas until acceptance of the contract or acceptance of the turf, whichever is later. Where necessary, such care may include, but is not limited to providing warning signs or barricades for protection against traffic. Any surfaces that have settled, become gullied, or otherwise damaged shall be repaired at no additional expense to the City to reestablish the grade and soil conditions that existed prior to placing erosion control materials.
- 9. Dust control must be provided as directed.
- The Contractor shall keep the roadways clear of soil and debris and is responsible for any street cleaning necessary during the course of the project.
- 11. If inspections by the Engineer or the City's DPW inspector find failure(s) by the Contractor to comply, the entire project will be stopped WITH NO COMPENSATION TO THE CONTRACTOR until all findings have been identified, addressed and completed by the Contractor.
- 12. If directed, the Contractor shall provide to the Engineer, weekly copies of a report for his inspection, findings and actions taken.
- 13. Appropriate soil erosion and sediment control measures to be used are specific to the particular site.

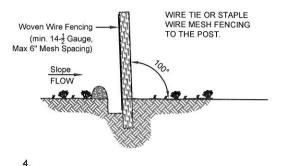


City of White Plains, N.Y. Bureau of Engineering

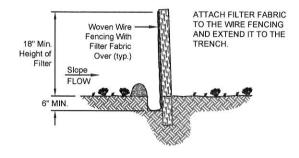
Standard Construction Detail

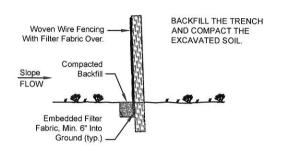
Page 1 of 8

Soil Erosion and Sediment Control

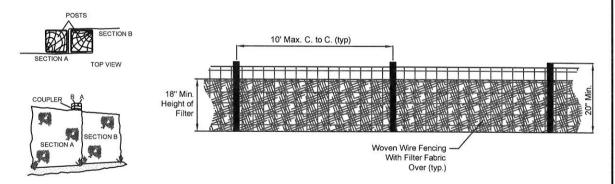


3.





SIDE VIEW



JOINING SECTIONS OF FENCING

CONSTRUCTION SPECIFICATIONS

STEEL EITHER "T" OR "U" TYPE,

WOVEN WIRE, MIN. 14-½ GA. 6" MAX. MESH OPENING.

PREFABRICATED UNIT: MIRAFI ENVIROFENCE, GEOFAB,

FILTER FABRIC: FILTER X. MIRAFI 100X.

STABILINKA T140N OR

OR APPROVED EQUAL

APPROVED EQUAL.

OR 2" HARDWOOD.

FENCE:

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.

F:\DP\MENG\DRA\MINGS\STANDARDS\\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-48.dwg

- WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- 4. WHEN PREFABRICATED UNITS ARE USED, IT SHALL BE REINFORCED WITH WOVEN WIRE MESH AS DESCRIBED UNDER "FENCE"
- 5. JOINING OF PREFABRICATED SILT FENCE SHALL BE MADE AS SHOWN ABOVE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR AS DIRECTED BY THE ENGINEER. REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 7. ACRE PER 100 LF SILT FENCE

SCALE: N.T.S.

SILT FENCE DETAIL

H OF WHITE S A PLANE S A P

City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

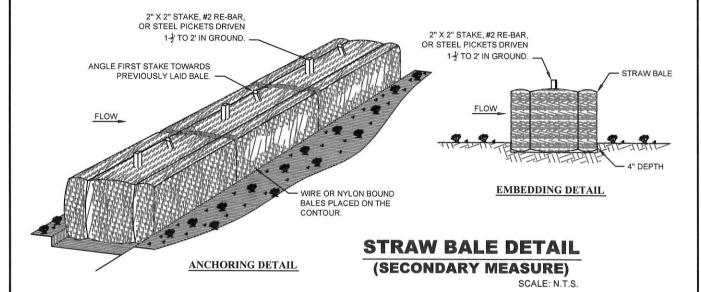
Page 2 of 8

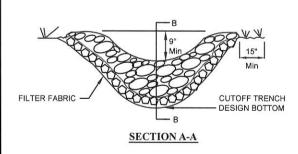
Soil Erosion and

Sediment Control

CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARDS THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR AS DIRECTED BY THE ENGINEER. REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



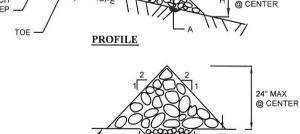


SPACING VARIES H (ft) DEPENDING ON CHANNEL SLOPE SLOPE (ft/ft) SAME ELEVATION CREST 24" MAX **CUTOFF TRENCH** @ CENTER 18" WIDE, 6" DEEP TOF **PROFILE**

CONSTRUCTION SPECIFICATIONS

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

ADPWAENGIDRAWINGS\STANDARDS\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-48.dwg



SECTION B-B

CHECK DAM DETAIL

SCALE: N.T.S.



FILTER FABRIC

City of White Plains, N.Y. Bureau of Engineering

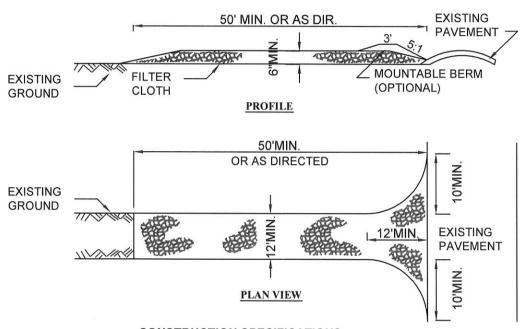
Standard Construction Detail

Page 3 of 8 Soil Erosion and Sediment Control

- TOPSOIL AND OTHER APPROVED NON-SURPLUS MATERIAL STOCKPILES SHALL BE LOCATED ON UNPAVED, LEVEL, DRY GROUND.
- 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
- STOCKPILES SHALL BE COVERED WITH TARPS OR TEMPORARY SEEDING AND BE SURROUNDED BY PROPERLY INSTALLED HAYBALE/STRAWBALE SEDIMENT BARRIERS AND/OR SILT FENCING.
- 4. WHEN UNABLE TO PLACE STOCKPILE ON UNPAVED SURFACES, CONTRACTOR SHALL, AT THE SOLE DISCRETION OF THE engineer, PLACE STOCKPILE OVER TARP AND COVER AND/OR CONTAIN AS DESCRIBED ABOVE.
- 5. SEE SPECIFICATIONS FOR INSTALLATION OF SILTFENCE.
- 6. NO STOCKPILE OF SURPLUS MATERIAL WILL BE PERMITTED.

SOIL STOCKPILING DETAIL

Scale: N.T.S.



CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY), OR AS DIRECTED.
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR AS DIRECTED BY THE ENGINEER. REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

Scale: N.T.S.



City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 4 of 8

Soil Erosion and Sediment Control

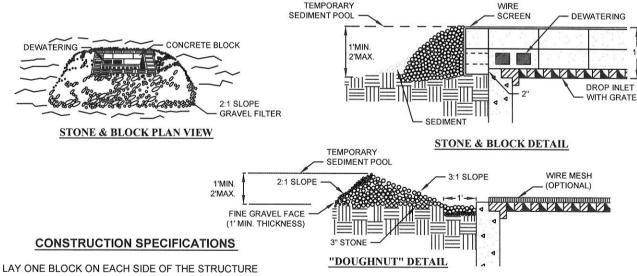
CONSTRUCTION SPECIFICATIONS

- FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
- 2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
- 3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR.
- 4. THE WEIR SHALL BE SECURELY NAILED TO 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
- 5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR AS DIRECTED BY THE ENGINEER. REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

MAXIMUM DRAINAGE AREA 1 ACRE

CURB DROP INLET PROTECTION DETAIL

Scale: N.T.S.



- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR AS DIRECTED BY THE ENGINEER. REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

MAXIMUM DRAINAGE AREA 1 ACRE

F:\DPVMENG\DRAWINGS\STANDARDS\DETAILS\Standard Construction Details\Final Details - 5.22.12\SD-48.dwg

STONE & BLOCK DROP INLET PROTECTION DETAIL

Scale: N.T.S.

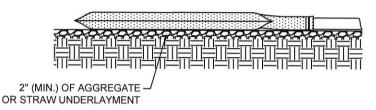


City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 5 of 8

Soil Erosion and Sediment Control



SIDE VIEW

MATERIAL SPECIFICATIONS

- Sediment Collection Bag shall be equal to DIRTBAG® 55, as marketed by ACF Environmental, Richmond, Virginia (800-448-3636), or approved equal.
- Sediment Collection Bag shall be a nonwoven bag sewn with high strength thread. The seams shall be high strength, double stitched, "J" type seams.
- Bags shall have sewn in fill spout large enough to accommodate a 4" discharge hose. Fill
 spout shall have high strength strapping to hold hose in place and prevent pumped water from
 escaping without being filtered.
- The Sediment Collection Bag shall have an average wide width strength of 100 lb/in per ASTM D-4884.
- 5. The geotextile fabric shall be nonwoven fabric with the following properties*:

Properties	Test Method Units	Nonwoven 55
Weight	ASTM D-3776Oz/yd	10
Grab Tensile	ASTM D-4632Lbs.	250
Puncture	ASTM D-4833Lbs.	165
Flow Rate	ASTM D-4491Gal/Min/Ft2	70
Permittivity	ASTM D-4491Sec1	1.3
Mullen Burst	ASTM D-3786Lbs.in2	550
UV Resistant	ASTM D-4355%	70
AOS % Retained	ASTM D-4751%	100

* All properties are minimum average roll value except the weight of the fabric which is given for information only.

CONSTRUCTION SPECIFICATIONS

- Sediment Collection Bags shall be installed in accordance with the manufacturers instructions, or as directed by the engineer.
- Sediment Collection Bags left in place as part of a fill or side slope shall be topsoiled and seeded.
- Sediment Collection Bags shall be removed and replaced under any of the following conditions if not being used as fill or side slope material:
 - · When bags are full.
 - When bags have been in place for more than 30 days (removal required due to ultraviolet deterioration).
 - · When bags are damaged.
- All Sediment Collection Bags shall be inspected daily by the contractor.
- 5. Care shall be taken during removal to minimize loss of entrapped sediment.

DIRTBAG®

GEOTEXTILE SEDIMENT COLLECTION BAG DETAIL

Scale: N.T.S.



City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 6 of 8
Soil Erosion and
Sediment Control

INSTALLATION DETAIL

NOTE:

THE DRAIN INLET SEDIMENT CONTROL DEVICE SHALL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW UNIT

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

HI-FLOW UNIT

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

OIL-ABSORBANT UNIT

CURB DAM OR FILTER

(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE DRAIN INLET SEDIMENT CONTROL DEVICE CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT DRAIN INLET SEDIMENT CONTROL DEVICE, WITH A WOVEN

CURB 1" REBAR FOR BAG **OPENING** REMOVAL FROM INLET (REBAR NOT INCLUDED)

OVERFLOW OPENINGS

SILTSACK (OR APPROVED EQUAL) **DUMP LOOPS** (REBAR NOT INCLUDED)

CACA, "

CONTROL DEVICES TO BE USED FOR THE PROTECTION OF DRAIN INLETS WITH CURB OPENINGS SHALL BE EQUAL TO:

NOTES

SILTSACK® AS DISTRIBUTED BY ACF ENVIRONMENTAL INC., RICHMOND, VA,

DANDY CURB SACK™ AS MANUFACTURED BY DANDY PRODUCTS INC., WESTERVILLE, OH, (800-591-2284)

OR APPROVED FOLIAL

- CONTROL DEVICES SHALL BE SIZED ACCORDINGLY TO FIT EACH BASIN.
- CONTROL DEVICES SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- DAILY INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED, AFTER EACH RAIN, OR AS DIRECTED BY THE ENGINEER. REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

SEDIMENT CONTROL DEVICE DETAIL FOR DRAIN INLET WITH CURB OPENING

DEPTH

Scale: N.T.S.



City of White Plains, N.Y. Bureau of Engineering

Standard Construction Detail

Page 7 of 8

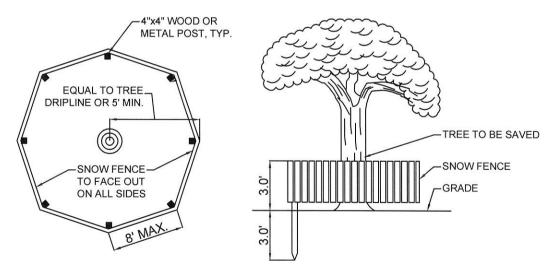
Soil Erosion and Sediment Control

SILT FENCE POSTS UPSTREAM END OF DRAIN PIPE OVERFLOW 1/3 PIPE DIA. WASHED STONE FILTER ACROSS PIPE INLET HARDWARE CLOTH CLOTH

ALTERNATE "B"

TEMPORARY STORM PIPE PROTECTION DETAIL

Scale: N.T.S.



NOTE

TREE PROTECTION DETAIL

Scale: N.T.S.

TREE PROTECTION SHALL BE PROVIDED FOR SPECIMEN OF TREES TO BE SAVED WHICH ARE LOCATED IMMEDIATELY ADJACENT TO CONSTRUCTION AREAS OR AS DIRECTED BY THE ENGINEER.

FILTER ACROSS PIPE INLET



City of White Plains, N.Y.
Bureau of Engineering

Standard Construction Detail

Page 8 of 8
Soil Erosion and
Sediment Control